## SEQUENCE LISTING

```
Carulli, John P.
     Little, Randall D.
     Recker, Robert R.
     Johnson, Mark L.
<120> High bone mass gene of 11q13.3
<130> 032796-014
<140> US 09/543,771
<141> 2000-04-05
<150> US 09/229,319
<151> 1999-01-13
<150> US 60/071,449
<151> 1998-01-13
<150> US 60/105,511
<151> 1998-10-23
<160> 641
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 5120
<212> DNA
<213> Homo sapiens
<400> 1
actaaagege egeegeege ceatggagee egagtgageg eggegegge eegteeggee
109
           Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu
 ctg ctg ctg ctg ctg ctg gcg ctg tgc ggc tgc ccg gcc ccc gcc
 Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala
 gcg gcc tcg ccg ctc ctg cta ttt gcc aac cgc cgg gac gta cgg ctg
 Ala Ala Ser Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu
gtg gac gcc ggc gga gtc aag ctg gag tcc acc atc gtg gtc agc ggc
253
Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly
 ctg gag gat gcg gcc gca gtg gac ttc cag ttt tcc aag gga gcc gtg
```

Leu Glu Asp Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val

tac tgg aca gac gtg agc gag gcc atc aag cag acc tac ctg aac

75

301

```
349
 Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn
cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct
Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser
                         100
 ccc gac ggc ctc gcc tgc gac tgg gtg ggc aag aag ctg tac tgg acg
 Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr
                                         120
 gac toa gag acc aac ogc atc gag gtg goc aac otc aat ggc aca too
493
 Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser
 cgg aag gtg ctc ttc tgg cag gac ctt gac cag ccg agg gcc atc gcc
541
Arq Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala
 ttg gac ccc gct cac ggg tac atg tac tgg aca gac tgg ggt gag acg
Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Gly Glu Thr
 ccc cgg att gag cgg gca ggg atg gat ggc agc acc cgg aag atc att
 Pro Arg Ile Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile
 gtg gac tcg gac att tac tgg ccc aat gga ctg acc atc gac ctg gag
685
 Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu
gag cag aag ctc tac tgg gct gac gcc aag ctc agc ttc atc cac cgt
733
 Glu Gln Lys Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg
                                     215
                 210
 gcc aac ctg gac ggc tcg ttc cgg cag aag gtg gtg gag ggc agc ctg
781
Ala Asn Leu Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu
                                 230
             225
 acq cac ccc ttc gcc ctg acg ctc tcc ggg gac act ctg tac tgg aca
829
 Thr His Pro Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr
 gac tgg cag acc cgc tcc atc cat gcc tgc aac aag cgc act ggg ggg
877
 Asp Trp Gln Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly
 aag agg aag gag atc ctg agt gcc ctc tac tca ccc atg gac atc cag
925
 Lys Arg Lys Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln
                                         280
                     275
 gtg ctg agc cag gag cgg cag cct ttc ttc cac act cgc tgt gag gag
 Val Leu Ser Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu
                                     295
 gac aat gge gge tge tee cac etg tge etg tee eea age gag eet
1021
```

```
Asp Asn Gly Gly Cys Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro
                                 310
ttc tac aca tqc qcc tqc ccc acg ggt gtg cag ctg cag gac aac ggc
1069
Phe Tyr Thr Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly
                             325
agg acg tgt aag gca gga gcc gag gag gtg ctg ctg ctg gcc cgg cgg
1117
Arg Thr Cys Lys Ala Gly Ala Glu Glu Val Leu Leu Leu Ala Arg Arg
                                             345
 acg gac cta cgg agg atc tcg ctg gac acg ccg gac ttc acc gac atc
1165
Thr Asp Leu Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile
350
qtq ctq caq qtg gac gac atc cgg cac gcc att gcc atc gac tac gac
Val Leu Gln Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp
ccg cta gag ggc tat gtc tac tgg aca gat gac gag gtg cgg gcc atc
 Pro Leu Glu Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile
             385
                                 390
cgc agg gcg tac ctg gac ggg tct ggg gcg cag acg ctg gtc aac acc
1309
Arg Arg Ala Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr
         400
 gag atc aac gac ccc gat ggc atc gcg gtc gac tgg gtg gcc cga aac
1357
 Glu Ile Asn Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn
 ctc tac tgg acc gac acg ggc acg gac cgc atc gag gtg acg cgc ctc
 Leu Tyr Trp Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu
                     435
 430
 aac ggc acc tcc cgc aag atc ctg gtg tcg gag gac ctg gac gag ccc
 Asn Gly Thr Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro
                                     455
                 450
 cga gcc atc gca ctg cac ccc gtg atg ggc ctc atg tac tgg aca gac
 Arg Ala Ile Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp
 tgg gga gag aac cct aaa atc gag tgt gcc aac ttg gat ggg cag gag
 Trp Gly Glu Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu
                             485
 cgg cgt gtg ctg gtc aat gcc tcc ctc ggg tgg ccc aac ggc ctg gcc
1597
 Arg Arg Val Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala
                         500
                                             505
 ctg gac ctg cag gag ggg aag ctc tac tgg gga gac gcc aag aca gac
 Leu Asp Leu Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp
                                         520
                     515
 aaq atc gag gtg atc aat gtt gat ggg acg aag agg cgg acc ctc ctg
1693
Lys Ile Glu Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu
```

				530					535					540	
gag 1741	gac	aag	ctc		cac	att	ttc	999		acg	ctg	ctg	999	gac	ttc
	Asp	Lys	Leu 545	Pro	His	Ile	Phe	Gly 550	Phe	Thr	Leu	Leu	Gly 555	Asp	Phe
atc 1789	tac	tgg	act	gac	tgg	cag	cgc	cgc	agc	atc	gag	cgg	gtg	cac	aag
	-	560			Trp		565					570			
1837					gac										
	575				Asp	580					585				
1885					aat										
590					Asn 595					600					605
1933					ggg										
	_	_		610	Gly				615					620	
1981					tgc										
		_	625		Cys			630					635		
2029					cct Pro										
_		640					645					650			
2077					tcc										
	655				Ser	660					665				
2125					aag Lys										
670			_		675 tgg					680					685
2173					Trp										
				690	agc		_		695					700	
2221					Ser										
			705		atg			710					715		
2269					Met										
_	_	720			acc		725					730			
2317					Thr										
_	735	_		_	ctc	740					745				
2365					Leu										
750	THE	9	0111	141	755			9		760				3	765

```
ctg gcc ctg gat ccc acc aag ggc tac atc tac tgg acc gag tgg ggc
2413
Leu Ala Leu Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly
                                     775
ggc aag ccg agg atc gtg cgg gcc ttc atg gac ggg acc aac tgc atg
2461
Gly Lys Pro Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met
                                 790
acg ctg gtg gac aag gtg ggc cgg gcc aac gac ctc acc att gac tac
Thr Leu Val Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr
get gac cag ege ete tae tgg ace gae etg gac ace aac atg ate gag
2557
Ala Asp Gln Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu
                         820
 tcg tcc aac atg ctg ggt cag gag cgg gtc gtg att gcc gac gat ctc
2605
Ser Ser Asn Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu
                                         840
 830
                     835
ccg cac ccg ttc ggt ctg acg cag tac agc gat tat atc tac tgg aca
2653
 Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr
                 850
                                     855
gac tgg aat ctg cac agc att gag cgg gcc gac aag act agc ggc cgg
2701
Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg
                                 870
             865
 aac cqc acc ctc atc cag ggc cac ctg gac ttc gtg atg gac atc ctg
2749
 Asn Arg Thr Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu
                             885
qtq ttc cac tcc tcc cgc cag gat ggc ctc aat gac tgt atg cac aac
2797
Val Phe His Ser Ser Arq Gln Asp Gly Leu Asn Asp Cys Met His Asn
                         900
 aac ggg cag tgt ggg cag ctg tgc ctt gcc atc ccc ggc ggc cac cgc
Asn Gly Gln Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg
                     915
                                         920
 tgc ggc tgc gcc tca cac tac acc ctg gac ccc agc agc cgc aac tgc
2893
 Cys Gly Cys Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys
 age eeg eec ace ace tte ttg etg tte age eag aaa tet gee ate agt
2941
 Ser Pro Pro Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser
                                 950
cgg atg atc ccg gac gac cag cac agc ccg gat ctc atc ctg ccc ctg
2989
 Arq Met Ile Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu
                             965
         960
 cat gga ctg agg aac gtc aaa gcc atc gac tat gac cca ctg gac aag
 His Gly Leu Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys
                                             985
 ttc atc tac tgg gtg gat ggg cgc cag aac atc aag cga gcc aag gac
```

```
3085
 Phe Ile Tyr Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp
                                        1000
                     995
gac ggg acc cag ccc ttt gtt ttg acc tct ctg agc caa ggc caa aac
3133
Asp Gly Thr Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn
                 1010
                                     1015
cca gac agg cag ccc cac gac ctc agc atc gac atc tac agc cgg aca
 Pro Asp Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr
                                 1030
 ctg ttc tgg acg tgc gag gcc acc aat acc atc aac gtc cac agg ctg
3229
 Leu Phe Trp Thr Cys Glu Ala Thr Asn Thr Ile Asn Val His Arg Leu
                             1045
                                                 1050
        1040
 age qqq qaa gee atg ggg gtg gtg etg egt ggg gae ege gae aag eee
3277
 Ser Gly Glu Ala Met Gly Val Val Leu Arg Gly Asp Arg Asp Lys Pro
 agg gcc atc gtc gtc aac gcg gag cga ggg tac ctg tac ttc acc aac
Arg Ala Ile Val Val Asn Ala Glu Arg Gly Tyr Leu Tyr Phe Thr Asn
                     1075
 1070
 atg cag gac cgg gca gcc aag atc gaa cgc gca gcc ctg gac ggc acc
Met Gln Asp Arg Ala Ala Lys Ile Glu Arg Ala Ala Leu Asp Gly Thr
                                     1095
 gag cgc gag gtc ctc ttc acc acc ggc ctc atc cgc cct gtg gcc ctg
 Glu Arg Glu Val Leu Phe Thr Thr Gly Leu Ile Arg Pro Val Ala Leu
                                 1110
             1105
gtg gtg gac aac aca ctg ggc aag ctg ttc tgg gtg gac gcg gac ctg
 Val Val Asp Asn Thr Leu Gly Lys Leu Phe Trp Val Asp Ala Asp Leu
                             1125
        1120
 aag cgc att gag agc tgt gac ctg tca ggg gcc aac cgc ctg acc ctg
3517
 Lys Arg Ile Glu Ser Cys Asp Leu Ser Gly Ala Asn Arg Leu Thr Leu
                                             1145
                         1140
     1135
 gag gac gcc aac atc gtg cag cct ctg ggc ctg acc atc ctt ggc aag
3565
 Glu Asp Ala Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys
                                         1160
                     1155
 1150
 cat ctc tac tqq atc qac cgc cag cag cag atg atc gag cgt gtg gag
3613
 His Leu Tyr Trp Ile Asp Arg Gln Gln Met Ile Glu Arg Val Glu
                                     1175
                 1170
 aag acc acc ggg gac aag cgg act cgc atc cag ggc cgt gtc gcc cac
3661
 Lys Thr Thr Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His
                                 1190
             1185
 ctc act ggc atc cat gca gtg gag gaa gtc agc ctg gag gag ttc tca
 Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser
                             1205
 gcc cac cca tgt gcc cgt gac aat ggt ggc tgc tcc cac atc tgt att
3757
```

```
Ala His Pro Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile
                                             1225
                         1220
     1215
 gcc aag ggt gat ggg aca cca cgg tgc tca tgc cca gtc cac ctc gtg
3805
Ala Lys Gly Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val
                                         1240
                     1235
ctc ctg cag aac ctg ctg acc tgt gga gag ccg ccc acc tgc tcc ccg
3853
 Leu Leu Gln Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro
                 1250
                                     1255
 gac cag ttt gca tgt gcc aca ggg gag atc gac tgt atc ccc ggg gcc
3901
 Asp Gln Phe Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala
 tgg cgc tgt gac ggc ttt ccc gag tgc gat gac cag agc gac gag gag
 Trp Arg Cys Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu
                             1285
 ggc tgc ccc gtg tgc tcc gcc gcc cag ttc ccc tgc gcg cgg ggt cag
3997
 Gly Cys Pro Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln
                         1300
                                             1305
 tgt gtg gac ctg cgc ctg cgc tgc gac ggc gag gca gac tgt cag gac
 Cys Val Asp Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp
                                         1320
 cgc tca gac gag gtg gac tgt gac gcc atc tgc ctg ccc aac cag ttc
4093
 Arg Ser Asp Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe
                                     1335
                                                          1340
                 1330
 cgg tgt gcg agc ggc cag tgt gtc ctc atc aaa cag cag tgc gac tcc
4141
 Arg Cys Ala Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser
             1345
 ttc ccc qac tqt atc qac qgc tcc gac gag ctc atg tgt gaa atc acc
4189
 Phe Pro Asp Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr
                             1365
         1360
 aag ccg ccc tca gac gac agc ccg gcc cac agc agt gcc atc ggg ccc
 Lys Pro Pro Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro
                         1380
     1375
 gtc att ggc atc atc ctc tct ctc ttc gtc atg ggt ggt gtc tat ttt
4285
 Val Ile Gly Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe
                     1395
 1390
 gtg tgc cag cgc gtg gtg tgc cag cgc tat gcg ggg gcc aac ggg ccc
4333
 Val Cys Gln Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro
                                     1415
                 1410
 ttc ccg cac gag tat gtc agc ggg acc ccg cac gtg ccc ctc aat ttc
4381
 Phe Pro His Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe
                                 1430
             1425
 ata gcc ccg ggc ggt tcc cag cat ggc ccc ttc aca ggc atc gca tgc
4429
 Ile Ala Pro Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys
```

```
1450
        1440
                            1445
qqa aaq tcc atq atq agc tcc gtg agc ctg atg ggg ggc cgg ggc gg9
Gly Lys Ser Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly
                        1460
gtg ccc ctc tac gac cgg aac cac gtc aca ggg gcc tcg tcc agc agc
Val Pro Leu Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser
                                       1480
                    1475
1470
tcg tcc agc acg aag gcc acg ctg tac ccg ccg atc ctg aac ccg ccg
4573
Ser Ser Ser Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro
                                    1495
                1490
ccc tcc ccg gcc acg gac ccc tcc ctg tac aac atg gac atg ttc tac
4621
Pro Ser Pro Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr
                                1510
            1505
tct tca aac att ccg gcc act gcg aga ccg tac agg ccc tac atc att
4669
Ser Ser Asn Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile
                            1525
cga gga atg gcg ccc ccg acg acg ccc tgc agc acc gac gtg tgt gac
4717
Arg Gly Met Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp
                                           1545
                        1540
age gae tae age gee age ege tgg aag gee age aag tae tae etg gat
4765
Ser Asp Tyr Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp
                    1555
1550
ttg aac tcg gac tca gac ccc tat cca ccc cca ccc acg ccc cac agc
Leu Asn Ser Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser
                                    1575
cag tac ctg tcg gcg gag gac agc tgc ccg ccc tcg ccc gcc acc gag
4861
Gln Tyr Leu Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu
                                1590
            1585
agg age tac ttc cat ctc ttc ccg ccc cct ccg tcc ccc tgc acg gac
4909
Arg Ser Tyr Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp
tca tcc tgacctcggc cgggccactc tggcttctct gtgcccctgt aaatagtttt
4965
Ser Ser
    1615
taaaaacatg agaaatgtga actgtgatgg ggtgggcagg gctgggagaa ctttgtacag
tqqaqaaata tttataaact taattttgta aaaca
5120
<210> 2
<211> 5120
<212> DNA
<213> Homo sapiens
```

actaaagcgc cgccgccgcg ccatggagcc cgagtgagcg cggcgcgggc ccgtccggcc geoggacaac atg gag gea geg eeg eec ggg eeg eeg tgg eeg etg etg 109 Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu ctg ctg ctg ctg ctg ctg gcg ctg tgc ggc tgc ccg gcc ccc gcc 157 Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala 20 gcg gcc tcg ccg ctc ctg cta ttt gcc aac cgc cgg gac gta cgg ctg 205 Ala Ala Ser Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu gtg gac gcc ggc gga gtc aag ctg gag tcc acc atc gtg gtc agc ggc 253 Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly ctq gaq gat qcg gcc gca gtg gac ttc cag ttt tcc aag gga gcc gtg 301 Leu Glu Asp Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val tac tgg aca gac gtg agc gag gcc atc aag cag acc tac ctg aac Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct 397 Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser ccc gac ggc ctc gcc tgc gac tgg gtg ggc aag aag ctg tac tgg acg Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr gac toa gag acc aac ogc ato gag gtg goc aac oto aat ggc aca too 493 Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser cgg aag gtg ctc ttc tgg cag gac ctt gac cag ccg agg gcc atc gcc 541 Arg Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala 145 ttg gac ccc gct cac ggg tac atg tac tgg aca gac tgg gtt gag acg 589 Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Val Glu Thr ccc cgg att gag cgg gca ggg atg gat ggc agc acc cgg aag atc att Pro Arg Ile Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile 180 gtg gac tcg gac att tac tgg ccc aat gga ctg acc atc gac ctg gag Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu 200 195 gag cag aag ctc tac tgg gct gac gcc aag ctc agc ttc atc cac cgt 733

<400> 2

```
Glu Gln Lys Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg
                                     215
gcc aac ctg gac ggc tcg ttc cgg cag aag gtg gtg gag ggc agc ctg
781
Ala Asn Leu Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu
                                 230
            225
 acg cac ccc ttc gcc ctg acg ctc tcc ggg gac act ctg tac tgg aca
Thr His Pro Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr
                             245
gac tgg cag acc cgc tcc atc cat gcc tgc aac aag cgc act ggg ggg
877
Asp Trp Gln Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly
 aaq aqq aaq gag atc ctg agt gcc ctc tac tca ccc atg gac atc cag
925
Lys Arg Lys Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln
                                         280
gtg ctg agc cag gag cgg cag cct ttc ttc cac act cgc tgt gag gag
973
Val Leu Ser Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu
                                     295
 gac aat ggc ggc tgc tcc cac ctg tgc ctg tcc cca agc gag cct
 Asp Asn Gly Gly Cys Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro
                                 310
 ttc tac aca tgc gcc tgc ccc acg ggt gtg cag ctg cag gac aac ggc
1069
 Phe Tyr Thr Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly
 agg acg tgt aag gca gga gcc gag gag gtg ctg ctg ctg gcc cgg cgg
 Arg Thr Cys Lys Ala Gly Ala Glu Glu Val Leu Leu Ala Arg Arg
 acg gac cta cgg agg atc tcg ctg gac acg ccg gac ttc acc gac atc
1165
 Thr Asp Leu Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile
                     355
 gtg ctg cag gtg gac gac atc cgg cac gcc att gcc atc gac tac gac
 Val Leu Gln Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp
 ccg cta gag ggc tat gtc tac tgg aca gat gac gag gtg cgg gcc atc
 Pro Leu Glu Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile
 cgc agg gcg tac ctg gac ggg tct ggg gcg cag acg ctg gtc aac acc
1309
 Arg Arg Ala Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr
         400
                             405
 gag atc aac gac ccc gat ggc atc gcg gtc gac tgg gtg gcc cga aac
1357
 Glu Ile Asn Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn
                         420
 ctc tac tgg acc gac acg ggc acg gac cgc atc gag gtg acg cgc ctc
 Leu Tyr Trp Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu
```

430					435					440					445
aac 1453	ggc	acc	tcc	cgc	aag	atc	ctg	gtg	tcg	gag	gac	ctg	gac	gag	ccc
Asn	Gly	Thr	Ser	Arg 450	Lys	Ile	Leu	Val	Ser 455	Glu	Asp	Leu	Asp	Glu 460	Pro
cga 1501	gcc	atc	gca		cac	ccc	gtg	atg	ggc	ctc	atg	tac	tgg	aca	gac
	Ala	Ile	Ala 465	Leu	His	Pro	Val	Met	Gly	Leu	Met	Tyr	Trp 475	Thr	Asp
tgg 1549	gga	gag		cct	aaa	atc	gag		gcc	aac	ttg	gat	ggg	cag	gag
	Gly	Glu 480	Asn	Pro	Lys	Ile	Glu 485	Cys	Ala	Asn	Leu	Asp 490	Gly	Gln	Glu
cgg 1597	cgt		ctg	gtc	aat	gcc	tcc	ctc	999	tgg	ccc	aac	ggc	ctg	gcc
	Arg 495	Val	Leu	Val	Asn	Ala 500	Ser	Leu	Gly	Trp	Pro 505	Asn	Gly	Leu	Ala
ctg 1645	gac	ctg	cag	gag	<b>a</b> aa	aag	ctc	tac	tgg	gga	gac	gcc	aag	aca	gac
Leu 510	Asp	Leu	Gln	Glu	Gly 515	Lys	Leu	Tyr	Trp	Gly 520	Asp	Ala	Lys	Thr	Asp 525
1693	atc														
Lys	Ile	Glu	Val	Ile 530	Asn	Val	Asp	Gly	Thr 535	Lys	Arg	Arg	Thr	Leu 540	Leu
gag 1741	gac	aag	ctc	ccg	cac	att	ttc	<b>a</b> aa	ttc	acg	ctg	ctg	999	gac	ttc
	Asp		545					550					555		
1789	tac														
	Tyr	560					565					570			
1837	aag														
	Lys 575					580					585				
1885	ctc														
590	Leu	-			595					600					605
1933	gac														
	Asp			610					615					620	
1981	acc														
	Thr		625					630					635		
2029	acc														
_	Thr	640					645					650			
2077	atc														
Ala	Ile 655	His	Arg	Ile	Ser	Leu 660	Glu	Thr	Asn	Asn	Asn 665	Asp	val	ATA	тте

```
ccq ctc acq qqc qtc aag gag gcc tca gcc ctg gac ttt gat gtg tcc
2125
 Pro Leu Thr Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser
 aac aac cac atc tac tgg aca gac gtc agc ctg aag acc atc agc cgc
2173
Asn Asn His Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg
                                     695
                 690
gcc ttc atg aac ggg agc tcg gtg gag cac gtg gtg gag ttt ggc ctt
2221
Ala Phe Met Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu
                                 710
 gac tac ccc gag ggc atg gcc gtt gac tgg atg ggc aag aac ctc tac
2269
 Asp Tyr Pro Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr
                             725
 tgg gcc gac act ggg acc aac aga atc gaa gtg gcg cgg ctg gac ggg
2317
 Trp Ala Asp Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly
                         740
 cag ttc cgg caa gtc ctc gtg tgg agg gac ttg gac aac ccg agg tcg
2365
 Gln Phe Arg Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser
                                         760
                     755
 ctg gcc ctg gat ccc acc aag ggc tac atc tac tgg acc gag tgg ggc
2413
 Leu Ala Leu Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly
                                     775
                 770
 ggc aag ccg agg atc gtg cgg gcc ttc atg gac ggg acc aac tgc atg
2461
 Gly Lys Pro Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met
 acg ctg gtg gac aag gtg ggc cgg gcc aac gac ctc acc att gac tac
2509
 Thr Leu Val Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr
                             805
 get gae cag ege ete tae tgg ace gae etg gae ace aac atg ate gag
2557
 Ala Asp Gln Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu
                                             825
 tcg tcc aac atg ctg ggt cag gag cgg gtc gtg att gcc gac gat ctc
2605
 Ser Ser Asn Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu
 830
                     835
 ccg cac ccg ttc ggt ctg acg cag tac agc gat tat atc tac tgg aca
 Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr
 gac tgg aat ctg cac agc att gag cgg gcc gac aag act agc ggc cgg
2701
 Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg
             865
                                 870
 aac cgc acc ctc atc cag ggc cac ctg gac ttc gtg atg gac atc ctg
2749
 Asn Arg Thr Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu
         880
 gtg ttc cac tcc tcc cgc cag gat ggc ctc aat gac tgt atg cac aac
```

```
2797
Val Phe His Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn
                         900
 aac ggg cag tgt ggg cag ctg tgc ctt gcc atc ccc ggc ggc cac cgc
2845
Asn Gly Gln Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg
                                         920
910
 tgc ggc tgc gcc tca cac tac acc ctg gac ccc agc agc cgc aac tgc
2893
Cys Gly Cys Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys
                                     935
 age eeg eec ace ace tte ttg etg tte age eag aaa tet gee ate agt
2941
 Ser Pro Pro Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser
                                                      955
             945
 cgg atg atc ccg gac gac cag cac agc ccg gat ctc atc ctg ccc ctg
2989
 Arg Met Ile Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu
 cat gga ctg agg aac gtc aaa gcc atc gac tat gac cca ctg gac aag
His Gly Leu Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys
                         980
 ttc atc tac tgg gtg gat ggg cgc cag aac atc aag cga gcc aag gac
 Phe Ile Tyr Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp
 990
 gac ggg acc cag ccc ttt gtt ttg acc tct ctg agc caa ggc caa aac
3133
 Asp Gly Thr Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn
                                     1015
                 1010
cca gac agg cag ccc cac gac ctc agc atc gac atc tac agc cgg aca
3181
 Pro Asp Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr
                                 1030
             1025
ctg ttc tgg acg tgc gag gcc acc aat acc atc aac gtc cac agg ctg
3229
 Leu Phe Trp Thr Cys Glu Ala Thr Asn Thr Ile Asn Val His Arg Leu
                                                 1050
                             1045
         1040
 age ggg gaa gee atg ggg gtg gtg etg egt ggg gae ege gae aag eee
3277
 Ser Gly Glu Ala Met Gly Val Val Leu Arg Gly Asp Arg Asp Lys Pro
                         1060
     1055
 agg gcc atc gtc gtc aac gcg gag cga ggg tac ctg tac ttc acc aac
3325
 Arq Ala Ile Val Val Asn Ala Glu Arg Gly Tyr Leu Tyr Phe Thr Asn
                                         1080
                     1075
 atq caq gac cgg gca gcc aag atc gaa cgc gca gcc ctg gac ggc acc
3373
 Met Gln Asp Arg Ala Ala Lys Ile Glu Arg Ala Ala Leu Asp Gly Thr
                                     1095
                 1090
gag ege gag gte etc tte ace ace gge etc ate ege eet gtg gee etg
3421
 Glu Arg Glu Val Leu Phe Thr Thr Gly Leu Ile Arg Pro Val Ala Leu
                                 1110
gtg gtg gac aac aca ctg ggc aag ctg ttc tgg gtg gac gcg gac ctg
3469
```

```
Val Val Asp Asn Thr Leu Gly Lys Leu Phe Trp Val Asp Ala Asp Leu
                             1125
         1120
aag cgc att gag agc tgt gac ctg tca ggg gcc aac cgc ctg acc ctg
3517
Lys Arg Ile Glu Ser Cys Asp Leu Ser Gly Ala Asn Arg Leu Thr Leu
                         1140
gag gac gcc aac atc gtg cag cct ctg ggc ctg acc atc ctt ggc aag
3565
Glu Asp Ala Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys
                                         1160
                     1155
cat etc tac tqq atc qac egc cag cag cag atg atc gag egt gtg gag
3613
His Leu Tyr Trp Ile Asp Arg Gln Gln Met Ile Glu Arg Val Glu
                                     1175
                 1170
aag acc acc ggg gac aag cgg act cgc atc cag ggc cgt gtc gcc cac
Lys Thr Thr Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His
                                 1190
ctc act ggc atc cat gca gtg gag gaa gtc agc ctg gag gag ttc tca
3709
Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser
                             1205
 gcc cac cca tgt gcc cgt gac aat ggt ggc tgc tcc cac atc tgt att
Ala His Pro Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile
                                             1225
 gcc aag ggt gat ggg aca cca cgg tgc tca tgc cca gtc cac ctc gtg
3805
 Ala Lys Gly Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val
                     1235
                                         1240
 ctc ctg cag aac ctg ctg acc tgt gga gag ccg ccc acc tgc tcc ccg
3853
Leu Leu Gln Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro
gac cag ttt gca tgt gcc aca ggg gag atc gac tgt atc ccc ggg gcc
3901
 Asp Gln Phe Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala
                                 1270
             1265
 tgg cgc tgt gac ggc ttt ccc gag tgc gat gac cag agc gac gag gag
 Trp Arg Cys Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu
                             1285
 gge tge eec gtg tge tee gee gee eag tte eec tge geg egg ggt eag
3997
 Gly Cys Pro Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln
                         1300
                                             1305
 tgt gtg gac ctg cgc ctg cgc tgc gac ggc gag gca gac tgt cag gac
 Cys Val Asp Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp
                                         1320
 1310
                     1315
 cgc tca gac gag gtg gac tgt gac gcc atc tgc ctg ccc aac cag ttc
4093
 Arg Ser Asp Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe
                 1330
                                     1335
 cgg tgt gcg agc ggc cag tgt gtc ctc atc aaa cag cag tgc gac tcc
4141
 Arg Cys Ala Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser
```

			1349					1350	)				1355	5	
ttc	ccc	gac			gac	ggc	tcc			ctc	atg	tgt			acc
4189			_												
Phe	Pro	Asp 1360		Ile	Asp	Gly	Ser 1365		Glu	Leu	Met	Cys 1370		Ile	Thr
4237						agc									
Lys	Pro 1375		Ser	Asp	Asp	Ser 1380		Ala	His	Ser	Ser 1385		Ile	Gly	Pro
gtc 4285	att	ggc	atc	atc	ctc	tct	ctc	ttc	gtc	atg	ggt	ggt	gtc	tat	ttt
Val 1390		Gly	Ile	Ile	Leu 1399	Ser	Leu	Phe	Val	Met 1400		Gly	Val	Tyr	Phe 1405
4333	_		_			tgc									
	_		_	1410	)	Cys			1415	5				1420	)
	ccg	cac	gag	tat	gtc	agc	<b>a</b> aa	acc	ccg	cac	gtg	CCC	ctc	aat	ttc
4381 Phe	Pro	His	Glu 1425	_	Val	Ser	Gly	Thr 1430		His	Val	Pro	Leu 1435		Phe
ata 4429	gcc	ccg			tcc	cag	cat			ttc	aca	ggc			tgc
	Ala	Pro 1440	_	Gly	Ser	Gln	His		Pro	Phe	Thr	Gly 1450		Ala	Cys
gga 4477	aag			atg	agc	tcc			ctg	atg	999			ggc	aaa
	Lys 1459		Met	Met	Ser	Ser 1460		Ser	Leu	Met	Gly 1469		Arg	Gly	Gly
	ccc	ctc	tac	gac	cgg	aac	cac	gtc	aca	999	gcc	tcg	tcc	agc	agc
		Leu	Tyr	Asp		Asn	His	Val	Thr			Ser	Ser	Ser	
1470		200	200	220	1479	acg	cta	tac	cca	1480		cta	aac	cca	1485 CCq
4573						Thr									
				1490	)			_	1495	5				1500	)
4621						CCC									
			1509	5		Pro		1510	)				1515	5	
tct 4669	tca	aac	att	ccg	gcc	act	gcg	aga	ccg	tac	agg	CCC	tac	atc	att
Ser	Ser	Asn 1520		Pro	Ala	Thr	Ala 1529		Pro	Tyr	Arg	Pro 1530		Ile	Ile
cga 4717	gga	atg	gcg	CCC	ccg	acg	acg	CCC	tgc	agc	acc	gac	gtg	tgt	gac
Arg	Gly 153		Ala	Pro	Pro	Thr 1540		Pro	Cys	Ser	Thr 1545		Val	Cys	Asp
agc 4765	gac	tac	agc	gcc	agc	cgc	tgg	aag	gcc	agc	aag	tac	tac	ctg	gat
	_	Tyr	Ser	Ala	Ser 1559	Arg	Trp	Lys	Ala	Ser 1560		Tyr	Tyr	Leu	Asp 1565
		tcg	gac	tca		ccc	tat	cca	ccc	cca	ccc	acg	ccc	cac	agc
	Asn	Ser	Asp	Ser 1570		Pro	Tyr	Pro	Pro 1579		Pro	Thr	Pro	His 1580	

```
cag tac ctg tcg gcg gag gac agc tgc ccg ccc tcg ccc gcc acc gag
4861
Gln Tyr Leu Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu
            1585
                               1590
agg age tac tte cat etc tte eeg eec eet eeg tee eec tge aeg gae
4909
Arg Ser Tyr Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp
        1600
                            1605
tca tcc tgacctcggc cgggccactc tggcttctct gtgcccctgt aaatagtttt
Ser Ser
    1615
taaaaacatg agaaatgtga actgtgatgg ggtgggcagg gctgggagaa ctttgtacag
tggagaaata tttataaact taattttgta aaaca
5120
<210> 3
<211> 1615
<212> PRT
<213> Homo sapiens
<400> 3
Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu Leu Leu
                                   10
Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala Ala Ala Ser
 Pro Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala
                            40
 Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly Leu Glu Asp
                        55
 Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val Tyr Trp Thr
                                       75
                    70
 Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn Gln Thr Gly
                                    90
                85
 Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser Pro Asp Gly
                               105
            100
Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr Asp Ser Glu
                                               125
                            120
 Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser Arg Lys Val
 Leu Phe Trp Gln Asp Leu Asp Gln Pro Lys Ala Ile Ala Leu Asp Pro
                    150
 Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Gly Glu Thr Pro Arg Ile
                                                       175
                                    170
 Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile Val Asp Ser
                                185
 Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu Glu Gln Lys
                                               205
                            200
 Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg Ala Asn Leu
                        215
                                           220
 Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu Thr His Pro
                                       235
                    230
 Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr Asp Trp Gln
                                    250
                                                       255
                245
```

```
Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly Lys Arg Lys
           260
                               265
Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln Val Leu Ser
                           280
                                               285
Gln Glu Arq Gln Pro Phe Phe His Thr Arg Cys Glu Glu Asp Asn Gly
                       295
                                           300
Gly Trp Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr
                                       315
                   310
Cys Ala Cys Pro Thr Gly Val Gln Met Gln Asp Asn Gly Arg Thr Cys
                                   330
               325
Lys Ala Gly Ala Glu Glu Val Leu Leu Leu Ala Arg Arg Thr Asp Leu
                               345
Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile Val Leu Gln
                                               365
                            360
Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp Pro Leu Glu
                        375
Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile Arg Arg Ala
                                       395
                   390
Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr Glu Ile Asn
                                   410
               405
Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn Leu Tyr Trp
                               425
Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu Asn Gly Thr
                           440
                                               445
       435
Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro Arg Ala Ile
                                           460
Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp Trp Gly Glu
                                        475
                    470
Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu Arg Arg Val
                                    490
                485
Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala Leu Asp Leu
                                505
Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp Lys Ile Glu
                                               525
                           520
Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu Glu Asp Lys
                                           540
                       535
Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe Ile Tyr Trp
                                        555
                    550
Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys Val Lys Ala
                                    570
                565
Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met Gly Leu Lys
                                585
Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys Ala Asp Arg
                            600
Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His Ala Thr Arg
                        615
Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met Lys Thr Cys
                    630
                                        635
Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala Ala Ile His
                                    650
                645
Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile Pro Leu Thr
                                665
Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser Asn Asn His
                            680
Ile Tyr Trp Thr Asp Val Ser Leu Lys Asn Ile Ser Arg Ala Phe Met
                                            700
                        695
Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu Asp Tyr Pro
```

705					710					715					720
Glu	Gly	Met	Ala	Val 725	Asp	Trp	Met	Gly	Lys 730	Asn	Leu	Tyr	Trp	Ala 735	Asp
Thr	Gly	Thr	Asn 740	Arg	Ile	Glu	Val	Ala 745	Arg	Leu	Asp	Gly	Gln 750	Phe	Arg
Gln	Val	Leu 755	Val	Trp	Arg	Asp	Leu 760	Asp	Asn	Pro	Arg	Ser 765	Leu	Ala	Leu
Asp	Pro 770	Thr	Lys	Gly	Tyr	Ile 775	Tyr	Trp	Thr	Glu	Trp 780	Gly	Gly	Lys	Pro
Arg 785	Ile	Val	Arg	Ala	Phe 790	Met	Asp	Gly	Thr	Asn 795	Cys	Met	Thr	Leu	Val 800
Asp	Lys	Val	Gly	Arg 805	Ala	Asn	Asp	Leu	Thr 810	Ile	Asp	Tyr	Ala	Asp 815	Gln
_		_	820					825					Ser 830		
Met	Leu	Gly 835	Gln	Glu	Arg	Val	Val 840	Ile	Ala	Asp	Asp	Leu 845	Pro	His	Pro
	850					855					860		Asp		
865					870					875			Asn		880
				885					890				Val	895	
			900					905					Asn 910		
-	_	915					920					925	Cys		
	930					935					940		Ser		
945					950					955			Arg		960
				965					970				His	975	
-			980					985					Phe 990		
_		995					1000	)				1005			
	101	0				1019	5				1020	)	Pro		
Gln 102		His	Asp	Leu	Ser 1030		Asp	Ile	Tyr	Ser 1039		Thr	Leu	Phe	Trp 1040
		Glu	Ala	Thr 1045	Asn		Ile	Asn	Val 1050	His		Leu	Ser	Gly 1055	
Ala	Met	Gly	Val 106	Val		Arg	Gly	Asp 1069	Arg		Lys	Pro	Arg 1070		Ile
Val	Val	Asn 107		Glu	Arg	Gly	Tyr 1086		Tyr	Phe	Thr	Asn 1089	Met	Gln	Asp
Arg	Ala 109		Lys	Ile	Glu	Arg 1095		Ala	Leu	Asp	Gly 110		Glu	Arg	Glu
110	5				1110	C				1115	5		Val		1120
Asn	Thr		_	112	5				1130	)			Lys	1135	5
			114	0				114	5				Glu 1150	)	
Asn	Ile	Val 115		Pro	Leu	Gly	Leu 116		Ile	Leu	Gly	Lys 116	His 5	Leu	Tyr

```
Trp Ile Asp Arg Gln Gln Met Ile Glu Arg Val Glu Lys Thr Thr
                                 1180
 1170 1175
Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His Leu Thr Gly
              1190
                       1195
Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser Ala His Pro
            1205 1210
Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile Ala Lys Gly
        1220 1225
Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val Leu Leu Gln
          1240 1245
Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro Asp Gln Phe
                  1255 1260
   1250
Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala Trp Arg Cys
               1270
                               1275
Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu Gly Cys Pro
                            1290
            1285
Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln Cys Val Asp
         1300 1305
                                        1310
Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp Arg Ser Asp
                     1320
                                     1325
Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe Arg Cys Ala
   1330 1335 1340
Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser Phe Pro Asp
               1350 1355 1360
Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr Lys Pro Pro
            1365 1370 1375
Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro Val Ile Gly
                        1385
         1380
Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe Val Cys Gln
                      1400
      1395
Arq Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro Phe Pro His
                  1415
                                 1420
Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe Ile Ala Pro
               1430
                               1435
Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys Gly Lys Ser
            1445
                           1450
Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly Val Pro Leu
         1460
                        1465
Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser Ser Ser
      1475 1480 1485
Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro Pro Ser Pro
   1490
                  1495
                                  1500
Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr Ser Ser Asn
                1510
                               1515
Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile Arg Gly Met
                            1530
            1525
Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp Ser Asp Tyr
                         1545
Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp Leu Asn Ser
                     1560
      1555
Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser Gln Tyr Leu
   1570 1575
                                  1580
Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu Arg Ser Tyr
                               1595 1600
               1590
Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp Ser Ser
                            1610
            1605
```

<210> 4 <211> 1615 <212> PRT <213> Homo sapiens

<400> 4 Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu Leu Leu Leu 10 Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala Ala Ala Ser 25 Pro Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly Leu Glu Asp Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val Tyr Trp Thr 70 75 Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser Pro Asp Gly 100 105 Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr Asp Ser Glu 120 115 Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser Arg Lys Val 135 140 Leu Phe Trp Gln Asp Leu Asp Gln Pro Lys Ala Ile Ala Leu Asp Pro 150 155 Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Val Glu Thr Pro Arg Ile 170 Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile Val Asp Ser 185 180 Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu Glu Gln Lys 200 205 Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg Ala Asn Leu 215 Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu Thr His Pro 230 235 Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr Asp Trp Gln 250 245 Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly Lys Arg Lys 265 Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln Val Leu Ser 285 280 Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu Asp Asn Gly 295 Gly Trp Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr 315 310 Cys Ala Cys Pro Thr Gly Val Gln Met Gln Asp Asn Gly Arg Thr Cys 330 325 Lys Ala Gly Ala Glu Glu Val Leu Leu Leu Ala Arg Arg Thr Asp Leu 345 Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile Val Leu Gln 360 Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp Pro Leu Glu 380 375 Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile Arg Arg Ala 395 390 385

```
Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr Glu Ile Asn
                                    410
                405
Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn Leu Tyr Trp
                               425
Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu Asn Gly Thr
                            440
Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro Arg Ala Ile
                        455
Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp Trp Gly Glu
                                       475
                   470
Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu Arg Arg Val
                485
                                   490
Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala Leu Asp Leu
                                505
Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp Lys Ile Glu
                            520
Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu Glu Asp Lys
                        535
                                           540
Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe Ile Tyr Trp
                                       555
                   550
Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys Val Lys Ala
                                  570
Ser Arq Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met Gly Leu Lys
            580
                               585
Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys Ala Asp Arg
                                               605
Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His Ala Thr Arg
                                            620
                        615
Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met Lys Thr Cys
                                        635
                    630
Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala Ala Ile His
                                    650
                645
Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile Pro Leu Thr
                               665
Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser Asn Asn His
                                                685
                           680
Ile Tyr Trp Thr Asp Val Ser Leu Lys Asn Ile Ser Arg Ala Phe Met
                        695
                                            700
Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu Asp Tyr Pro
                   710
                                       715
Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr Trp Ala Asp
                                    730
                725
Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly Gln Phe Arg
                                745
Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser Leu Ala Leu
                            760
Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly Gly Lys Pro
                        775
                                            780
Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met Thr Leu Val
                                        795
                   790
Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr Ala Asp Gln
                                    810
                805
Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu Ser Ser Asn
                               825
            820
Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu Pro His Pro
                            840
                                                845
Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr Asp Trp Asn
```

	850					855					860				
Leu 865	His	Ser	Ile	Glu	Arg 870	Ala	Asp	Lys	Thr	Ser 875	Gly	Arg	Asn	Arg	Thr 880
	Ile	Gln	Gly	His 885		Asp	Phe	Val	Met 890	Asp	Ile	Leu	Val	Phe 895	His
Ser	Ser	Arg	Gln 900		Gly	Leu	Asn	Asp 905		Met	His	Asn	Asn 910		Gln
Cys	Gly	Gln 915		Cys	Leu	Ala	Ile 920		Gly	Gly	His	Arg 925		Gly	Cys
Ala	Ser 930		Tyr	Thr	Leu	Asp 935		Ser	Ser	Arg	Asn 940		Ser	Pro	Pro
	Thr	Phe	Leu	Leu	Phe 950		Gln	Lys	Ser	Ala 955		Ser	Arg	Met	Ile 960
945 Pro	Asp	Asp	Gln	His 965		Pro	Asp	Leu	Ile 970		Pro	Leu	His	Gly 975	
Arg	Asn	Val	Lys 980		Ile	Asp	Tyr	Asp 985		Leu	Asp	Lys	Phe 990		Tyr
Trp	Val	Asp 995		Arg	Gln	Asn	Ile 1000	Lys	Arg	Ala	Lys	Asp	Asp	Gly	Thr
Gln	Pro 1010	Phe	Val	Leu	Thr	Ser 1015	Leu		Gln	Gly	Gln 1020	Asn		Asp	Arg
Gln 102	Pro		Asp	Leu	Ser 1030	Ile		Ile	Tyr	Ser 1035	Arg		Leu	Phe	Trp 1040
	Cys	Glu	Ala	Thr	Asn		Ile	Asn	Val 1050	His		Leu	Ser	Gly 1055	
Ala	Met	Gly	Val 1060	Val		Arg	Gly	Asp	Arg		Lys	Pro	Arg	Ala	
Val	Val	Asn 1075	Ala		Arg	Gly	Tyr 1080	Leu		Phe	Thr	Asn 1085		Gln	Asp
Arg	Ala 1090	Ala		Ile	Glu	Arg 1095	Ala		Leu	Asp	Gly 1100		Glu	Arg	Glu
Val 110	Leu		Thr	Thr	Gly 1110	Leu		Arg	Pro	Val 1115		Leu	Val	Val	Asp 1120
	Thr	Leu	Gly	Lys 1125	Leu		Trp	Val	Asp 1130		Asp	Leu	Lys	Arg 1135	
Glu	Ser	Cys	Asp 1140		Ser	Gly	Ala	Asn 1145	Arg	Leu	Thr	Leu	Glu 1150		Ala
Asn	Ile	Val 1155		Pro	Leu	Gly	Leu 1160	Thr		Leu	Gly	Lys 1169		Leu	Tyr
Trp	Ile 1170	Asp		Gln	Gln	Gln 1179		Ile	Glu	Arg	Val 1180		Lys	Thr	Thr
Gly 118	Asp 5	Lys	Arg	Thr	Arg 1190		Gln	Gly	Arg	Val 1199		His	Leu	Thr	Gly 1200
Ile	His	Ala	Val	Glu 1205		Val	Ser	Leu	Glu 1210		Phe	Ser	Ala	His 1219	
_	Ala		1220	)				122	5				1230	)	
Asp	Gly	Thr 1239		Arg	Cys	Ser	Cys 124		Val	His	Leu	Val 1245	Leu 5	Leu	Gln
Asn	Leu		Thr	Cys	Gly	Glu 125		Pro	Thr	Сув	Ser 1260		Asp	Gln	Phe
	1250	J									_	_			_
126	Cys 5	Ala		_	1270	Ile )				1275	5				1280
126 Asp	Cys	Ala Phe	Pro	Glu 128	1270 Cys 5	Ile ) Asp	Asp	Gln	Ser 1290	1275 Asp	5 Glu	Glu	Gly	Cys 1299	1280 Pro

```
Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp Arg Ser Asp
                                           1325
      1315
                         1320
Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe Arg Cys Ala
                     1335
Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser Phe Pro Asp
                                    1355
                  1350
Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr Lys Pro Pro
                                 1370
              1365
Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro Val Ile Gly
                                               1390
                             1385
Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe Val Cys Gln
                                            1405
                         1400
       1395
Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro Phe Pro His
                                        1420
                      1415
Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe Ile Ala Pro
                                     1435
                  1430
Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys Gly Lys Ser
                                1450
              1445
Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly Val Pro Leu
                                               1470
          1460
                             1465
Tyr Asp Arq Asn His Val Thr Gly Ala Ser Ser Ser Ser Ser Ser Ser
                                 1485
      1475
                         1480
Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro Pro Ser Pro
                                        1500
                     1495
Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr Ser Ser Asn
                  1510
                                    1515
Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile Arg Gly Met
              1525
                                 1530
Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp Ser Asp Tyr
                             1545
           1540
Ser Ala Ser Arq Trp Lys Ala Ser Lys Tyr Tyr Leu Asp Leu Asn Ser
                                            1565
                         1560
Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser Gln Tyr Leu
                                        1580
                      1575
Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu Arg Ser Tyr
                                                       1600
                 1590
                                    1595
Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp Ser Ser
              1605
                                 1610
```

```
<210> 5
<211> 3096
<212> DNA
<213> Homo sapiens
```

## -400 5

```
catcttctca cacgatctct cgcttcgcac tccttccttt gattggtttt caccatttac
                                                                     60
tcagacgacg gtccttcttc gatctttgca cattcttcta tcatctacta ccttcatacc
                                                                     120
cagctccgtc ccctaatatt catgcgcgga tggcccattc cgtggtgaaa attcccttct
                                                                     180
actotgotaa totgotgtto tototocoto cogtogggtt otgotoctgo cacgttotoc
                                                                     240
                                                                     300
cctctcccca ccaaaggctg ggttttcttt gtcagggctc ctttcccctt tggaagaagg
                                                                     360
qqqqctgtat ggccttggtg cgaggccctc cagtgacagg atcccccatc acccagagtt
ccacaggece tggtagggag gagggggage agaagaggag gtgccatett tgcctgctgg
                                                                     420
ggaagggeag gggccaccca cacagagctc tcccatttgc tgtggaccct ggggccactg
                                                                     480
                                                                     540
cccagttcct tccaaaggaa agccagctcc ccaggtggtg ggagagtgat atggcttcct
                                                                     600
cttaaactta gggaattgag tgtgtggttg cttctaagtg ccttagaagc cgggagcggc
                                                                     660
tectqqaaaq aqeetqeetg ceacageggg cettaceetg getgtgeeca cagatgteec
```

cagcaaatta	aaaaacacct	ccatctctgg	cctttgaaga	ggtgtgggtt atgcatctga	acagccgaga
gtgtaaaccg	tggtgaaatg	tggtctttcc	agtttgggga	gaagcagggc	agagctgggg
cttttgtacc	cagggtttcc	aagagctcct	gcctccctcg	gctgggctgg	ccagggcccc
				gttgctggcc	
				ctcctgcctg	
1020				gagacactgg	
1080					
1140				ctgcttgagc	
1200				tgtccaagga	
1260				ttagcagggg	
1320				tgggcgacag	
1380				gtggaccagt	
1440				atcacacctt	
1500				catggggcac	
1560				ccaggacgat	
1620				gtccttgttg	
1680				aactctcttc	
1740				aaggccccag	
1800				ggctgccatc	
1860				ctcccctgaa	
1920				gggaactcag	
1980				acctctcagc	
2040				cccagtcagg	
2100				tggccctgcc	
2160				tttggacctg	
2220				catctccttt	
2280				gatttctttt	
2340				tggagtgcaa	
2400					agcctcctga
2460				tttttgtatt	
gcaaggtttc 2520	gtcatgttgg	ccaggctggt	ctcaaactcc	tggccttaag	tgatctgccc

```
qcctcggcct cccaaagtgc tgagatgaca ggtgtgagcc accgtgcccg gcccagaact
2580
ctttaattcc cacctgaaac ttgccgcctt aagcaggtcc ccagtctccc tcccctagtc
cctqqtccca ccattctqct ttctqtctca atgaatttqc ctaccqtaag tacctcatat
aaattgaatc ataaagtatt tgtcttttta tatctggctt atttcactta gcataacatt
2760
cttaagtttc atccatgttg tagcatgtgt cagaatctct ctctttttt tttttttt
ttttttttt ttttgcagac agagtctcgc tctgtcatct agactggagt tcagtggcac
2880
gatctcggtt cactgcaaca tctgcctcct gggtccaagc aattctcctg cctcagcctc
2940
cttagcagct ggaactacag gcgcgtgcca ccatgccttg ctaatttttg tattttatg
3000
tggaggcagg gtttcaccat cttggccagg ctggtctcga attcctggtc ttcaccacgg
gggcccgaag gacccgggca aagcgtggag gggagg
3096
<210> 6
<211> 26928
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (12044), (12489), (26433), (26434), (26435), (26436), (26439), (26441)
<223> Identity of nucleotide sequences at the above locations are
unknown.
<400> 6
                                                                      60
qaaqaccaag ggcacacagc gaggcagttt cagggcgggc agcctggggc cccacggggc
ggccccggac acttgttctc acctgtggag ggcagagaag ggaacaggga gagaagtggc
                                                                     120
                                                                     180
cggctgggag tggaggtggg tttgaggttt tactgtaaac taaatgtgta ccctctacct
tagttatgaa ttatgagaca cgaagactgc gaaacagaca cactcctcta aaagtgcctc
                                                                     240
                                                                     300
taggctgaca gggagaaagt cccgccaggc tcccagacgc cacctttgag tccttcaaca
                                                                     360
agcccgccag ggcctcttgc ccaccggtgt cagctcagcc actgaaccct ccaggaagaa
                                                                     420
gacgtgctgg taggagaaga atctcaccca ggcacagcct ggaaggggca cagaaggggc
                                                                     480
tccggaacca gcaagcccaa gttggaactc ccagtctgct actttctaga acgactgtgc
                                                                     540
ccttggcggg tctaagtaga acctctccgc gcactctttc ctcctttgta aagtggggac
agcaatggcc accttgcagg ttcagagagg gcttgcagta cctcacagaa ctgagtgccc
                                                                     600
gtgaacgtgt gtgttcctcc agatttgtga cagctttgcc aggctggagt caggctgaac
                                                                     660
gcctctgccc tcatggggtt tatattctag gaagaccaac aaaaacaaga agacggaaaa
                                                                     720
                                                                     780
ttaaaacaac aaaagcccca ttgacaggcc gtgaagaatg ccatgaaaaa tgaatggcgt
                                                                     840
tgtgctgcag tctttgggga aacgggctta cggaaagaag gacacttgag ctgctaccaa
                                                                     900
tgagcagccg tccggtggga gggcagttca ggaagagcag acatccactg aggaggcgct
                                                                     960
ggggcagagg gcagcctggt cgctggattc gggggaggaa ccacatcagg ccatgagctg
gagetggtgg tagaatgtac aggagaggee agecagggee ageteatgte agaeeteaag
cggggaagat gaatcgagaa tgcaccccac gagcaatggg aagccagtct acgatttaag
cagcaaaaat attttccctt cttccaccct gcatccagct ctaccagcac agcctggggt
tctattttca agatagaata gacccagact cccagctctt cttacacttc tactactgcc
1200
```

acctgtcacc	cactcatgcg	tccccacttg	cagcctcgac	ccccttccac	ctgatctcat
ggcagccagg 1320	gaagctccag	ggctcgtgag	ggctgccatc	tcaggaaaga	agcaaaagcc
	gcagggcctg	ctccaaccac	acttcttcct	tgacctctca	gcttccttag
	cccacatctc	accctgctcc	agccacagtg	gtgtctctgt	gggttctcaa
	tgcactcctg	cctcagggcc	tttgtgcttg	ctgttctctg	ctgggactct
	ttttttttg	agacagggtc	tcactctgtg	gcccaggctg	gagtgtagtg
gtgtgatcgt	agctcattgc	aacctcaaac	tcctgggctc	aagcaatcct	cccacctcag
	agttagcttt	tgttgttttg	ttttgagatg	ggatctcact	ctgttgccca
	cagtggggca	atcttggctc	accacaacct	ctgcctccca	ggctcaagca
	ctcagcctcc	caagtagctg	ggattacagg	catgtgccac	cacgcccagc
	atttttagta	gagacagggt	ttcaccatgt	tggtctggct	ggtcttgaac
	agatgatcca	cctgcctcgg	cctcccaaag	tgctgggatg	acaggcatga
	agtagttagg	actacagaga	ggggccatca	tgcctggtga	tcctcccacc
	caactctttc	accccactta	gcctcgtggc	tcactctctt	acctcttcag
	aggcctgagg	acccctgttg	aaaattgcaa	accacacccc	ccaccaccac
	tgccagcact	ttctactcca	tttctctgct	ttacttttct	cctttgtact
	tgactcatta	catgtttacg	tatctttctt	ctctccacta	gcatggaagc
	cagagagtgt	agttttattc	cctgatgtgt	ttcctgtgcc	cgtaccaggg
	agtaggtgct	cagtaaatgt	gtgttggatg	aacaaataca	gtgaaaggat
_	tttataaaga	aggcactctg	gctgctgagt	ggggatgaga	ctgtcaggag
	cctgtggggg	cctggccagc	aggtgggtac	aatggtagca	gccaggagag
	ggactcaagt	ggatggggcc	tgctcagggc	tccggccaca	ggaacaaagg
_	caggatggcc	tgtcatagag	gacacattac	aactggccca	aagttcaagt
	aatttgggaa	gggatacaga	aaaactaaag	actctactgg	acagtcagtt
	ttacatagaa	aatgtaccaa	gaattaaaaa	aaaaaaaaa	aagcattatg
	cagagactcc	cagagaggaa	agggactatg	ggctggatgc	ggtgactcac
	ccagcacttt	gggaggccga	ggagggtgga	tcacgaggtc	aggagttcaa
	ggcaacatgg	taaaaccccc	gtttctacta	aaaatacaaa	aaattagctg
2880 ggcatggcag	catgtgcctg	taatcccagc	tactcgggag	gctgaggcag	gagagttgct

aggcagaggt	tgcagtgagc	cgagattgag	ccactatgct	ccagcttggg
agactccgtc	tctaaaaaaa	agaaaaaaaa	ggccagatga	ggtggctcat
ccagcacttt	gggaggccga	ggtgggtgga	tcacgaggtc	aggagatcga
gctaacatgg	tgaaactcca	tctctactta	aaatacaaaa	aattagccgg
gggcacctgt	agtcccagct	acttgggagg	ctgaggcagg	agaatggcgt
ggcggagctt	gcagtgagcc	gagattgcgc	cactgcactc	catccagcct
gttagactcc	gtctcaaaaa	aaaaaaaaa	aaaaaaatta	gctgattagt
ggcgggcgcc	tgtaatccca	actactcggg	aggctgaggc	gggagaatca
ggaggcagag	gttgcaatga	gccgatatca	cgccactaca	ctccagcctg
caagactcca	tctcaaaaaa	gaaaaaaaaa	aagaaagggg	ctgtgctgtg
caaagcacac	tactgcaagg	tcccagggtg	cctgactcca	accggagcct
catttgcaaa	gaatgaatta	aaattcagca	ctattttatt	ctgcaggatt
aaggacagtc	atttttagac	ccttcagtaa	cgtaataagt	aaccggagga
ttccacttcc	ccagacggtt	gcctgtcaca	gctcatcagg	ccaacaaact
ctcaaatttg	gaaatgttca	ctctcagttc	gttccttaga	tgcaagtcca
gtaacagggg	ctcagcacct	gtccaatctc	attgcttccg	gggacagggg
tgtcgtttca	gcccggtgac	acttgggcaa	agtgcctttt	ggtttccctc
acgtgctggc	tctgtgaagt	tacgctgggc	acaagagccc	ccccaaccc
actgctgtgg	tcagaggcgc	ccctggggct	ttgggagcca	cagaatcttc
cgccggagga	ggccccagtg	agagtgccca	ctgccaggct	cattcctcag
gcctctcccc	aaaacaggca	atgcttctca	gcaacctgcc	ccaggagcag
gccgccatcg	gcctacagtg	ctgggctctg	gagggcttgg	ttggtaacag
ctatgagcca	gctggggtgt	gaaggacaca	ggctggattc	acctctctgg
ctgcattcaa	aaagtgggaa	tcatgatatc	tgctctattt	cttatctctc
tgaacctcca	ataagacttt	taaaaatact	ctttctacct	tacttttatt
tttaagataa	tgtctagctg	tctcacccag	gctggagtgc	agtggtgtga
ctacagcctt	aacctcccag	gctcaagtga	tcctcctacc	acagcctccc
aactacaggc	atgcaccacc	gcacctggat	aattttttct	tttgagacaa
	agactecyte ceageacttt getaacatgg gggcacetgt ggcggagett gttagactee ggcgggcgce ggaggcagag caagacteea catttgcaaa aaggacagte ttecaettee ctcaaatttg gtaacagggg tgtegttea acgtgetgge actgetgge actgetgge actgetgge cgccggagga gceteteee gccgcateg ctatgageea ctgcattea ttgaacetea ttgaaceteca tttaagataa ctacagectt	agactccgtc         tctaaaaaaaa           ccagcacttt         gggaggccga           gctaacatgg         tgaaactcca           ggggagctt         gcagtgagcc           gttagactcc         gtctcaaaaa           ggcgggcgcc         tgtaatccca           ggaggcagag         gttgcaatga           caagactcca         tctcaaaaaa           caagacacc         tactgcaagg           catttgcaaa         gaatgaatta           aaggacagtc         attttagac           ttccacttcc         ccagacggtt           ctcaaaatttg         gaaatgtca           ttgtcgtttca         gcccggtgac           acgtgctggc         tctgtgaagt           acgtgctggc         tctgtgaagt           acgccggagga         gcccggtgac           acgtgctggc         tctgtgaagt           acgccggagga         gcccggtgac           gcccggtggc         tctgtaaggc           cgccggagga         ggccccagtg           gcctctcccc         aaaacaggca           ctatgagca         gctggggtgt           ctgcattca         gctggggtgt           ctgcattca         aaagtggga           ctatgactca         ataagacttt           ttaagactca         aaagtggga	agactccgtc         tctaaaaaaa         agaaaaaaaa           ccagcacttt         gggaggccga         ggtgggtgga           gctaacatgg         tgaaactcca         tctctactta           gggcacctgt         agtcccagct         acttgggagg           gttagactcc         gtctcaaaaa         aaaaaaaaaa           ggcgggcgcc         tgtaatcca         actactcggg           ggaggcagag         gttgcaatga         gccgatatca           caagactcca         tctcaaaaaa         gaaaaaaaaaa           caagactcca         tactgcaagg         tcccagggtg           catttgcaaa         gaatgaatta         aaattcagca           aaggacagtc         attttagac         ccttcagtaa           catttgcaaa         gaatgaetga         tcccaagggt           catttgcaaa         gaatgaatta         aaattcagca           actgcactt         ccttaggtg         ccttgcaggg           ttccaatttg         gaaatgttca         cttcagttc           gtaacaggg         ctcagcaggt         gcctgaatca           tgtcgtttca         gccggtgag         ccctgggga           actgcggagga         gcccagggggg         ccctggggc           actgcggagga         gcccagggggg         ccctggggc           actgggggggggggggggggggggggggggggggggggg	aggcagaggt         tgcagtgagc         cgagattgagc         ccacattgagc           agactccgtc         tctaaaaaaa         agaaaaaaaa         ggccagatga           ccagcacttt         ggaggccga         ggtgggtgga         tcacgaggtc           gctaacatgg         tgaaactcca         tctctactta         aaatacaaaa           gggcacctgt         agtcccagct         acttgggagg         ctgaggcagg           gttagactcc         gcctaaaaa         aaaaaaaaaa         aaaaaaaatta           ggcgggcgcc         tgtaatccca         actactcggg         aggctgaggc           gaaggcagag         gttgcaatga         gccgatatca         cgccactaca           caagactcca         tctcaaaaaa         gaaaaaaaaaa         aagaaagggg           ggaggcagac         tactgcaagg         tcccagggtg         cctgactcaa           ggaggcagag         gttgcaatga         gccgatatca         cgccactaca           ggaggcagag         gttgcaatga         gccgatatca         cgccactaca           ggaggcagag         gttgcaatga         gccgatatca         cgccaatcaca           ggagggcagag         gttgcaatga         gcctactca         gctaataagg           caattgcaa         tctttagac         gcttcaataagg         gcttcataagg           ctcaaattggaga         tcctaaattg

ggtttcactc 4680	tgttgcccag	gctggagtgc	agtggtgcac	tcttggctca	ctgcagcctc
	ggcttaggtg	atcctcacac	ttcagtctcc	caagtagctg	ggactacagg
	tacacccagc	taatatttt	gaaggatggg	gtttcactat	attgcccagg
	actccagggt	ttaagcaatc	taccttcctc	agcctgccaa	agtgctagga
ttataggtat	gagccacccc	ccggcctata	atcctaccac	tttaaaaaag	cctgtaattt
_	aaaaattttt	ctaaattttt	tatagagatg	ggggacagct	gtggtctcac
	aggctggtct	tgaactccta	ggatcaagcc	atcctcctgg	cctggcctcc
	ggattataag	cataagcctt	accttacctt	tttttttga	gttgcagttt
	gctcaggctg	gagtgcaatg	gcaagatctt	ggctcactgc	aacctccacc
	aagcaattct	cctgcctcag	cctcccgagt	agctgggatt	acaggcatgc
	ccagctaatt	ttgtattttt	agtagagatg	gggtttctct	atatacctta
	actgcattca	tgtaaattgt	gattaacatg	gattcaagag	agggagtgag
	ccaggcagtc	acctcggctg	tcaccctcca	cttctctcct	ccttctgaca
5400 gtcatcgtcc	atccgtttct	gcagctgttt	gtttgactct	cctgatcatt	ttgcttgcca
5460 cataacttgc	ctcctgggaa	agaatgccct	gggcaggccc	acatgagtag	tgaaaaataa
5520 tctgcagtga	aaaataaaac	taagtagtct	ggtccacaga	gcagtcttat	tttttcactg
5580 cagatgaagg	agttgacatt	caggcttcat	tctcatttat	aagtgtttta	aagacacata
5640 cagtggattg	aacagtggcc	ttcaaaaaga	tgtatctaca	tcctaatccc	tgggacctgt
5700 gaatgttaac	caagttagga	aaagggtctt	cccgggtgtc	attaagttag	agatcttgag
5760 atgaggagct	catcgtggat	tatccaggtg	gaccctgcat	ccaaggacaa	atggtcctta
5820	gcagaggctg				
5880	gtggatcacc				
5940	ctactaaaaa				
6000	aggaagctga				
6060	tegegecact				
6120					
6180	aaaagcagac				
6240	tgaggcagag				
6300	gcaagaggta				
ctgccaacac	ctccacctca	gacttctggc	ctccagcact	gtgagataat	caactgctgt

C2 C0					
6360 tgttttaagc 6420	caccagattt	gtggtaattt	gttatggcag	ccacaggaaa	ctaatacagt
	cacaaaccca	tcttacagaa	aaggaaactg	aagtcagaga	ggtagtggct
tgtgcagtgt 6540	gttaggccat	tcttgtatta	ctataaagaa	atacctgagg	ccgggcatgg
tggctcacgc 6600	ctgtaatccc	agcactttgg	gaggccaagg	tgagtggatc	acttgaggtc
aggagttcaa 5660	gaccagcctg	gacaacatgg	tgaaacccca	tttctactga	aaatatgaaa
attagccagg 5720	catggtggcg	tgcatctgta	gtcccagcta	ctcaggaggc	tgaggcagga
gaatcacttg 5780	cgcccgggag	gaggaggttg	tagtgagcca	agattgtgcc	actgcactcc
agcctgggag 8840	acaagagaga	aaccctgtct	caaaataaat	aaaaaacaaa	taaacacctg
agactgggta 5900	gtttataaag	aaaggggtta	actggctccc	ggttctgcag	gctgtacaag
catggtgccg 5960	gcatctgctt	ggttgctggg	aaggcttcag	ggagttttac	tcatcgtgga
aggcagagcc 7020	agagcaggtg	catcacacag	caaaagcagg	agcgagagag	agagagagca
gggaggtgtg 7080	cacactttta	aatgagcaga	tctcacgaga	actcaccatt	gcaaggacag
caccaagcca 7140	cgaggggtct	gcccccatga	cccaaacctc	ccactaggcc	ccacccccaa
cattgggaat 7200	tacagttcaa	catgaggttt	ggggggacaa	atatccaaac	tatatcattc
acccctggc 260	ccccagatc	tcatgttctt	ctcacattgc	aaaatatagt	catgccttcc
agtagecee 320	ccaaagtctt	aactcatccc	agcattaact	caaaaatccc	attcccaagt
caacgtctc 7380	atctgaagat	gagttccttt	cacctacaag	actgtaaaaa	tgaaaacagt
tatttactgc 7440	tgagatacaa	tgggggcata	ggcattaggt	aaacattcct	gttccaaaag
ggagaaatcg 7500	gtcaaaagaa	aggggctata	ggccccaagc	aagtccaaaa	cccagcagag
caatcattca 7560	atcttaaagc	tccaaaataa	cctccttaaa	ctccatgtcc	catagccagg
gcacactggt 7620	gcaaggggca	ggctcccaag	gccttgggca	gctctattcc	tgcggctttg
cagaattcag 7680	tccccatggc	tgctcttaca	gattggagat	gagggcctgc	ggcttttcca
ggtgcagggt 7740	gcaagctgct	ggtgatctac	cattctgggg	tgtggatggt	ggcggccccg
cccgcagct 7800	ccactaggca	ttgtcccagt	ggggactcta	tgtggggcct	ccaaccccac
atttcccctc 7860	caatgggaag	gctctgcccc	tgcagcagcc	ttcttcctgg	gctcccaggc
ttctcatac 7920	atcctctgac	atctaggtgg	atggtgtcaa	gcttccttca	ctcttgcact
tgcacacct 7980	acaggcttaa	caccacatgg	aagctgccaa	ggtgtatggc	tggaaccctc
gaagcagca 3040	gcctgagctg	tgactatggc	cctttgagcc	aaggctggag	ctggaacagt

ctagatgcag 8100	gcagggagca	gtgtcctgag	gctgtgcaga	gcagcagggc	cctgtgcctg
gacaatgaaa 8160	ccattctttc	ctcctcatcc	tctgggcctg	tgatgggagg	gttgtggaag
atctctgaaa 8220	tgcctttgag	gcctttttgc	ctctgaggcc	tatttcctat	tgtctcagtt
attggcagtc 8280	ggctcctttt	tagttatgca	aatcctctag	caagaggtta	ctccactgcc
ggcttgaact 8340	cctctcctga	aaaagctttt	tctttctttg	tcacatggcc	aggctgcaaa
ttttccaaac 8400	ttttatgctc	tgttttacct	ttaaatataa	cttctaactt	taattcattt
atttgctcct 8460	gcatttgagc	atagggaatt	caaagaagct	gggccacatc	ttgaatgctt
tgctgcttca 8520	aaatttatgg	ccacgcttgg	tggctcacac	ctgtaatccc	agcactttgg
gaggcctagg 8580	tgggcagatc	acgagatcag	gagatcgaga	ccatcctggt	caacatggtg
aaacccatct 8640	ctactaaaaa	tacaaaaaaa	ttagcttggt	gtggtggcgc	agacctgtag
tcccagctac 8700	tggagaggct	gaggcaggag	aattacttga	acctgggagg	cagaggttgc
agtgagccca 8760	gatcatgcca	ctgcactcca	gcctggtgac	agaataagat	ttgatctcga
aaggaaggaa 8820	ggaaggagga	agggaagaaa	tgtcttcccc	ccagatgtcc	tgggtcatcc
ctcttatgtt 8880	caaacttcaa	cagatcccta	gggcatgaaa	ataatacagc	caaattattt
gctaaggcat 8940	aacgaaagtg	acctttgctc	cagttcccaa	taagttcctc	atttccatct
gagactcatc 9000	accctggcct	tggcttgtcc	atatcactgt	cagcattttg	gtcacaatca
tttaaccagc 9060	taatcgggag	gctgaggcaa	gaggatcact	tgaacccagg	aggttgaggc
tgcagtgagc 9120	tgtgatcaca	tcactgcagt	ccagcttggg	caacagagca	agateetgte
tcaataaata 9180	aataaataaa	tacataaata	acttaagttt	atttaaagct	gcatctttgc
caccatggag 9240	aaaggccagg	ccagctcctt	ctctcttct	gcacgtgttc	ctcccacctc
agctgcctct 9300	gctcctcaag	gaggaacaga	gggagtagga	aaggccatcc	caggaggccc
agcaccccat 9360	gacctggctc	tggggccttg	tgggtttatg	gattcccagt	gctgagtcat
ccctcacagg 9420	ctcttgtggg	caccttggac	attggtcaga	agcatgtggt	ccccgggaac
acaccttttc 9480	ctgatcatct	gggaagggca	gcttgtgcca	gcgaggccac	ctgttcagcg
ccacggcccg 9540	ccagacagct	gcagccacag	ccttgccttt	gatcagagca	aacaccagac
atgtgtgtca 9600	tgccccaac	ccatctccag	gggacacatg	tcctttcttg	ccaggcctga
gatgaacaag 9660	agagggacaa	gtccccaagc	ctctctcc	ttcctgcctc	acccactccg
ctgttagatt 9720	ctcaaggtgg	atggtgggct	aactagggca	accgaccatc	ctggtttacc
	ggggcatttt	caggaataaa	actgcaaaag	tctggagcaa	acaggagcaa

9780					
gttggtcact 9840	ctggggctgg	tggagtcagg	tttccttctg	caggccccct	ccccgcaagc
atgggtggaa 9900	cccaggacag	gaacacagag	caggccccag	gaccgggctt	gtcacttaca
agtcttttt 9960	tttttttt	ttttgagatg	gagtcttgct	ctgtcatcag	ggctggagta
	atcttagctc	actgcaacct	ctgccttctg	ggttcaagtg	atccccctgc
ctcagcctcc 10080	tgagtagctg	ggactacagg	tggcaccacc	acgcccagct	aattttttgt
atttctagta 10140	gagatgagat	ggccaggctg	gtcttgaact	cctgacctca	agtgatctgc
ccgccttggc 10200	ctcccaaagt	gctgggatta	caggtgtgag	ccactgtgcc	tggccccact
cacaagtctt 10260	aaaccatgcc	tcagcacatc	aatgccattt	acaaaaaggt	agagggattt
tccaggcaaa 10320	aatagatgaa	agacatagga	tgattgatca	tgtcctgctt	aaacataggt
ctgatgctat 10380	taagaattga	gggctgggag	cggtggctca	cgcctgtaat	cccagcactt
tgggaggccg 10440	aggcgggcgg	atcacgaggt	caggagatcg	agaccatcct	ggctaacacg
gtgaaacccc 10500	atctctacta	aaaatacaaa	aaatggccgc	gcgcggtgac	tcacgcctgt
aatcccagca 10560	ctttgggagg	ccaaggcggg	cggatcacga	ggtcaggaga	tcgagaccat
cctggctaac 10620	acagtgaagc	cccgtctcta	ctaaaaaata	caaaaaaaat	tagccaggca
tggtggcggg 10680	cgcctgtagt	cccagcaact	tgggaggctg	aggcaggaga	agaatggtgt
gaacctggga 10740	ggtggagctt	ccagtgagcc	gagatcacac	cactgcactc	cagcctgggc
gacagagtga 10800	aactccatct	caaaaaaaaa	ataaataaat	aaataagaat	tgttagtatt
ttgcaggtgt 10860	gacaaatgat	tctgtttctg	tggcagaatg	ttctcaggag	atctcttttg
aactctcatg 10920	gaaagcatca	tgctgttggc	aacatcacat	ttatttttat	ttatttatta
ttttttagag 10980	acagggtctt	gctctgttgc	ccaggctgga	gtgcagtggc	acaatcacag
ctcactgcag 11040	cctcaacctc	ctgggctcaa	gcaatcctcc	tgcctcagcc	tcccaaagta
gctgggacca 11100	caggcgtgag	ccactgcact	cagcccaatg	taccttcaat	atttacattt
ctggcaaagg 11160	tagcaaaacc	ttaacaaatt	ttgaatctag	ataataaaat	tatgaggctg
11220				tcaacatttt	
11280					ggtgtaaccc
11340					tgtcatccca
11400					gttgtgatga
gccgagatcg 11460	cgtcattgca	ctccagcctg	ggcaaaagca	agagcgaaac	tctctctcca

aaaaataaaa 11520	aaaaaataaa	ttaatgaatt	aattaaaata	aaataaaata	atggatagtc
actgtaaaga 11580	aaaaataaat	gtatatatca	gccaacaagt	gatggaatag	agcaccccat
ctccctggct 11640	ggacagatac	atcccacaac	acctggaagg	cggctccatg	tagaactttc
tggactgctt 11700	gaggtgctgt	gctggagcac	ggtgacagag	gagctggacc	atggacctcc
cccggccccc 11760	accaagggcg	aggtccccct	gtggtgggtc	tgagggaggc	atccgtatgg
cctctgcggc 11820	ttgggcaggg	aatttggggt	ccaagtactt	ggtgcaaagc	ctggaaagag
11880	ctgagggcat				
11940	cctgggcagg				
12000	cagaatgtcc				
12060	cagaacaggg				
12120	aacccaggct				
12180	cagctcactc				
12240	ctttcttaaa				
12300	gctcccagca				
12360	tctggccagc				
12420	ggctagctac				
12480	agtgagccaa				
12540	aaaacaaaca				
12600	tcccagcact				
12660	cttggccaac				
12720	ggtgggtgcc				
12780	tgacctggag				
12840	tttgtttctc				
12900	gtccctgagc				
12960	gcactccacc				
13020	cgccctcacc				
13080	tcagcacgct				
13140	tactcctctc				
cccttgcatc	cagcactgcc	cttccacgtg	ccccttccct	ccagcttcac	agcagggtgg

12200					
13200 ggcctccagg 13260	ccctgcccac	tgtgcccatc	cacaagttgt	ggtgggagct	ccgaggggag
	gcatggactt	gggacgtcca	agtctgggac	caggggcagc	tggttggtgg
	gggataggga	ctttcaggta	gagaggctgt	aggggcaaga	tcgggacggc
	aaggagggct	ctgacctggg	aaatattgtg	cagcttcctc	tttgccattc
ctggagctca 13500	gacactggcc	ggctctcacc	ccgcccttcc	tgcaggacac	agctccatcc
cagtgagttc 13560	ctagtgtaga	catctccagc	agcacggatg	ggaaaggaag	tcatcaaagg
13620	cggaggcttt				
13680	aagcgtggga				
13740	agtcctagag				
13800	ttcctactgt				
13860	gcattggcgc				
13920	cagctggtga				
13980	cctctgcagg				
14040	ggccactgga				
14100	gtgcctttga				
14160	ccggactttg				
14220	gctgagccgg				
14280	acccctgagc				
14340	tgtccattag				
14400	gcgagcaggg				
14460	gttcttggaa				
14520	tgcggtaaca				
14580	gcgctcagta				
14640	gcgtgggagg				
14700	ctgttaagat				
14760	ttcccgctca				
14820	ttttcctttt				
geegtggeae 14880	gatcttggct	cactgetgee	teceaggite	aagtgateet	codageteag

cctcctgcgt 14940	agctgggacc	ccaggtatgt	gtcaccacag	ccggctaatt	tttgtatttt
	cgggatttcg	ccgtattgcc	caggctggtc	tcaaactcct	gagttcaccg
	cctcagcctc	ccaaagtgct	gggattactg	gcatgagcca	ccgcacccag
	agttttctaa	cctgtgccag	caggaataat	gatagctgcc	tagcttggct
	ttaagtaaga	tgaccgggta	gcaaatatga	agtattactg	gacacagagg
	gggttagcag	cggtggtcag	ggctgctgct	tcctggcctg	agctcgaagg
	ttaccacctg	ggtgagtcct	cgtccaagcc	tggcactgct	gcgtgggaat
	acccaagttg	gcagattgtg	tgcaaagtta	agtcctgact	ctgtggggtg
	cctcttcatc	ggacctgctt	ccggtgactg	cattcgcacc	tcctcctgtt
	cacagcccag	ctttcctcct	gctgagccct	ccctgggcct	gctgtcaccc
	gtgcctcgca	gtgccactcc	ctgtaccctg	aatactttgc	cctgcctctc
	agagtcaggg	cccctgtgag	gctctgccca	gcccgtcctc	cgggtttctg
	gcacttccct	gcatgattgc	ttctgagagt	cccccagcc	tgtgagcttc
	gacagettet	caggaccgag	gcttcctggt	ctgcttgcaa	ttttacaggc
	tcccttggcc	aacatcagag	actggacatc	tgcagatctg	tgctagccac
	ggcaccccag	caggtagctc	tgtaaccaac	ccattctgta	aagctgaggc
	gaagcgcctg	gcctggggcc	acagcctgcg	tcagctgcag	agccaggagc
	acctgcggct	ctgctcacag	ggtcctgcac	agactgctgc	tggagccacc
	caagagagtt	catgttaact	ccctctcaca	tccctcagcc	agggtggggg
	acactcaggg	atggcctacc	ctccccaaca	acccccgtca	ggtttgccgg
	aagaaaagtt	ctgggcagaa	ttccaccgtt	ggcctggcct	acactctcct
	ggaccctcag	cggtggataa	gttgtgggca	gaagagatgc	aatcaggatt
	caccccttgc	cagccccaat	aagctcaata	agctgggctc	ggtctgagga
	aaatgtgcaa	atggcctggg	acagccctgt	gttcctttca	gtaaggttgc
	gctgaaagtt	ggagaaacag	aagccagtgc	ttatggtttt	aattaagata
	tgtatgtatg	tatgtatgta	tgtatgtatt	tatgtattta	tctttagaga
	ctctgttgcc	caggctggaa	tgcggtgaca	caatcatagc	tccttgcagc
	tatgcccaaa	tgatcctcct	acctcagcct	cctgagtagc	tgggactaca
	aactatgcct	agctaatttt	tatttctatt	ttttgtggag	actgggttct

1.6600					
16620 cactttgttg	cccaggctgg	tcttgaaccc	ctagcttcaa	gcaatcctcc	tgcctcagcc
16680	gagggattac	aggtgtgagg	caccacacct	ggcctggaat	ttatttgtat
16740					
tctgcttata 16800	aaattaatac	attcttattg	cagaaaagtt	tgaaaataaa	agaaaggaca
	agcgtatata	atttcacagc	tcagatctca	ctgctattaa	catttttatt
	cttttttctt	tctaggtaca	tatgcagaga	ttattttatt	ttatttattt
	tttattttat	attttttatt	tcattatttt	attttattt	attttattat
	agggcctcac	tctgtcaccc	aggctggagt	acaatggagt	gatcatagct
cactgcagcc 17100	tcaaacacct	gggctcaagc	aatcccccca	ctcagccttc	tgagtagttg
ggactaaagt 17160	gtgagtctgg	ctaattttt	ttactttttg	tattgacaga	ggtctcacta
17220	gctgatctca				
17280	attacaggca				
17340	cccatggaca				
17400	tcattatggc				
tgctgctgct 17460	tagatttttc	tggcctgtct	cctatttgta	ttcttccaga	taaattttag
aatcatttta 17520	tcaaattccc	cttgcagaaa	aagccctatt	ggattttggt	tgaaaaatac
tgaattttta 17580	cattaactta	ggaaagggct	gggcacggtg	gctcacgcct	gtaatcccta
cacttttcga 17640	ggccaaggca	ggtggatcac	ttgaggttgg	gagtttgaga	ccagcctggc
caacatggtg 17700	aaactcggtc	tttactaaaa	atacaaaaat	tgccaggcgc	attggctcac
17760	agcactttgg				
17820	taacacggtg				
17880	gcgcctgtgg				
17940	cggagcttgc				
18000	ctccatctca				
18060	acctataatc				
18120	gaggttgcaa				
18180	ctgtgaaaaa				
18240	tccaagagca				
caacagaatt 18300	ttacagtttt	tttcatgata	tcctgctatt	tcttataaaa	tgtattccta

gatattctgc 18360	atgttttccg	gttgtttgtt	aataaatatt	tttcatttgt	cattatttcc
taattggctg 18420	ttatttgtat	atatgacatc	tgttgaattt	tttgattact	ttgaaaatgg
	gtgtttttt	ttaactttct	attttgagat	aattttgact	tacagaagat
ttgcaaaaat	agtacagaga	gttcctgttt	ccccttatg	ttaacccagt	ttctccttat
_	tacataacta	cagaacaatt	gtcaaatcta	agaatcaacc	tgggcacaat
	aaactgcaga	agctgttcag	atctcaccag	ttcttctact	gctccccttt
	tgttcaatcc	ggaatcctac	attatattta	gttgtcattt	ctctttggtg
18720 tcttccaatc	tgtgacagtt	cctcagtctt	tctttgtctt	tcatgacttt	cattttttta
18780 tacttttgaa	aaatactggc	cggttgtttt	gtagaacgcc	ctcagtttgg	gtttgcctga
18840	gattagatcg				
18900	tgcatcatat				
18960	atttcgtgaa				
19020					
19080	taattactga				
19140	taacttcggc				
aagtattact 19200	gtggagttct	aatggtaatt	ttctgtttct	ctcattcctt	caacctttat
taatatgctt 19260	cttcctcact	tattcatttt	gtttcagttg	tttataccaa	catggatttg
	ttttattctt	tgggttgcaa	ttgaatccta	tcattatttt	gttagtcagt
tgttccatcc	gaccttggtc	attaggagcc	cttgaaattt	ggctcccatg	ccttttttt
	accgagtctc	actctgtcac	ccaggtttga	gtgcagtggc	atgatcttgg
	cctccgcctc	ccaggttcaa	gcaattctcc	tgcctcagcc	tcctgagtag
19500 ctggtattat	aggegeteca	ccaccttgcc	cggctaattt	tttgtatttt	tagtagagat
19560 ggggttttat	tatgttggcc	aggctggtct	caaactcctg	acctcaggtg	atctgcccgc
19620 ctcggcctcc	caaagtgctg	ggactacagg	cgtgagccac	cacacctggc	ctcctatgcc
19680	gcccgtcttt				
19740	ttgctgccct				
19800					
19860	tacttagaaa				
19920	tttgggaggc				
gaccatcctg 19980	gctaacatgg	tgaaactctg	tctctactaa	acatacaaaa	aattagtcca
ggcgcggtgg	cgggcgcctg	tagtcccagc	tactcaggag	gctgaggcag	gagaacggca

00010					
20040 tgaacccggg 20100	aggcggagct	tgcagtgagc	cgagatcggc	agccactgca	ctccagcctg
	cgagactccg	tctcaaaaaa	aaaaaaagga	aaaagaaaaa	agaaaactag
	tagtttttt	tttaagacag	ggtctctctt	gccccagctg	gagtgtagca
	agctcactgt	agcctcaacc	ttctgggctc	aagcaatcct	cctgcctcag
tctcctaagt 20340	agctgggtct	acaggcatgc	accaccgtac	gtggcaattt	ttaaaaactg
tttgtagaga 20400	tggagtctcc	ctatgttgcc	tggtctggaa	ctcctggcct	caagtgatcc
20460	gcctcccaaa				
20520	tctttttta				
20580	gagtctcgct				
20640	ccgcctccca				
20700	cgcccgctac				
20760	ttagccagga				
20820	gctgggatta				
20880	ttctagcgat				
20940	gtttctacat				
21000	atggtttcat				
21060	acccggtttc				
21120	attcactgaa				
21180	ccaggctgga				
21240	gcaattctgt				
21300	gctaattttt				
21360	aactcctgac				
21420	agccaccgcg				
21480					ctcgccatca
21540	ggctcccctt				
21600	ttgaggagga				
21660					aggetgggaa
gttcaagacg 21720	aaguugeugg	ttggtttggt	ceetygette	aayacyycyc	cttgctgctg

catcctctgg 21780	agaagaagaa	tgcggtgtcc	tctcactgca	gaagatggaa	gcgctaaaag
	cctttgccaa	gccattttat	aatgggcatt	aatccacaaa	ggatgaaacc
	tcaagcttta	aagcactggt	tctcaacctt	tttggtctca	ggagcccttt
	aacgttttga	ggatcccaaa	aaaaggcttc	tacaggttcc	atcttttaat
atttaccata	tcaaaaatta	aactgaaaaa	attttaaatt	atttattcat	ttaaaataac
	ccattacatg	ctaacataaa	tcatgtattt	tatgaaaaat	agctatattt
	aaattagtga	gaagagtggc	atgtataatt	ttttttgttt	attttttgtt
	atcttattct	gtcgcccagg	ctggagtgca	gtggtgtgat	ctcggctcac
	gcctcccagg	ttcacaccat	tctcctgcct	cagcctcctg	agtagctggg
	cctgccacca	cgcccggcta	attttttgta	tttttagtag	agatggagtt
	agccaggatg	gtcttgatct	cctgaccttg	tgatccaccc	gcctcagcct
	tgggattaca	ggcttgagcc	actgcgtctg	gcctaaattt	ttgtgaatgt
	tgccttctca	tatttgtttc	tgcattcaag	ttattgcaaa	atgttgtgtt
22500 ggttgaagtt	tgtaaagaaa	atgtggcctc	atacagttgt	gtagttggaa	aggcaagagt
22560 attttgattc	tctcttcaaa	caactatgga	caacctgctg	ttacaaaacc	agaatgcaaa
22620 aagttgtagt	aaatacaggt	taggtgtagt	gtggaatctg	aaagcatgtg	aatgaacttt
22680 ctgagttttg	taacattaaa	gtccagttgc	gttaagctac	tgtgatagca	tatagcattg
22740 tcctaatact	ggaattagta	tcagaagtgg	ggtgctactg	ttaataaata	aaaagaaata
22800 aataaatcat	gtgatactgg	ctcagaagtc	aggcagtagg	ctgtgtggaa	cctgacatca
22860 cgccatgtaa	tacattggca	accatttgat	ccagctgtct	gtcatgatga	cttggaaagt
22920 caaccacata	cttacagagc	ctgtagacat	aggggaaaat	agtataaaac	agaatactaa
22980					gagatattct
23040	ctggaccatc				
23100	gcgggttaag				
23160					aacaaagacc
23220					gagaagtaaa
23280					catgcaaacg
23340					ttgccaaaga
23400					
agtcatgaaa	geagaeteta	Lacigaliag	geattadade	aaaaacaacc	tttaggcccc

23460					
	tgggcaggaa	gtgggctgtc	aaagctgttc	atcctctaag	gtggacctag
	ccagtataca	cttcagatgt	ggccctggag	gacactggac	atggaggacc
	tgaggctagg	gcttcatttc	tccaatgacc	tcagctgcct	ctatttcccc
	ggaagtccta	tcatcgttat	tattattatt	atcatcattt	ttattttgag
	gctctgttgc	ccaggctgga	gtgcagtgac	atgatcatgg	ctcactgcag
	ctcaagtgat	cctcctgcct	cagcctcctg	agtagctggg	agtacaggca
	tgcttggcta	tttttttt	cagtagagat	agggctctca	ctatgttgcc
	tcaacctcct	gggttcaaga	gatcctccta	cctcagctcc	tgagtagctg
	gcacaccacc	atgccaacta	atttttaatt	tttttttgta	tggacaggat
	agaaatggat	tgcttgcaga	ggcaggagga	tcacttgagc	ccaggagttt
	tgaaccatga	tcgcacccct	gcactccaat	ctgggcaaca	gagtgagacc
	aaaaaaaaa	aagagagaga	gagagagact	caaagatagg	caaaaaagtg
	atagtggaca	aaaaggaacg	ctctaagtct	gccctattgg	catggtgctg
	aactagagat	agggggtact	atgtggttga	ctatgggtgc	atctttggct
	gatcctaagt	tggaagcagg	gacaaaaatt	agggaagctg	ttagttattc
	ggcagtagtg	gactggttgt	gatagaagtt	attgttttgg	ccaggtgcgg
	ctgtaatcct	agccctttca	gagttcaacg	tgggtggatc	aggaaggagg
	gaggtcagga	gttagcctgg	ctaacctggc	gaaatcccat	ctctactaaa
aatacaaaaa 24600	ttagctgggc	gtggtggtgc	atgcctataa	tcccagctac	tcgggacgct
gaggcaggag 24660	aatcagttga	acctggggag	gcggaggttg	cagtgagcca	agatcgtgcc
caatttcatc 24720	tcaaaaaaaa	aaaaaaagtt	atcgtttagc	ttcctcgatt	gttactggac
gtagtaatct 24780	ggcttcctgc	aagtctaact	ttcagcagac	tggctacatg	ggctgtgtac
tgtagataag 24840	gcagtaagta	aagcaaaaat	tgatagagca	tcaaggataa	atagaaaatc
cgtaatcaag 24900	cagaagattt	gaacacttca	ctttcagtaa	ctgataaaac	aagtagacaa
aaaaaatcag 24960	taaggatgta	gaagatttga	acaacgtaat	taacaaactt	gacttgattt
acacgtctag 25020	aaccctgcag	aacacacact	ttttcaagca	tactcagaac	atttatataa
agtgaccata 25080	tggtggacca	taaagcagtt	tcaacaaatc	tcacaggagt	aaaataacag
accgtgtttt 25140	ctgaccgtaa	gtacagttaa	cctagaaatt	gaaaacaaaa	agctagaaaa

accccatgta 25200	tctggaaatt	ttaatataca	ctttgaaata	acaaatggat	cagagattaa	
	aatttagaaa	taccttgaac	tgaaaaataa	tgagaatact	ataccccaaa	
	gcagctgaac	agtatataga	cgaaaagtat	actcatatgt	gcatacctta	
aggagcgggg 25380	aggattgaaa	gttaatggga	ggcaaaagca	ggtggatcac	ttgaggttag	
gagttcaaga 25440	tcagcctggc	taacagggtg	aaaccccatc	tctactaaaa	atacaaaaaa	
ttatccaggc 25500	gtagtgaggc	tgaggcaaga	gaatcgttgg	aacccaggag	gcagaggttg	
25560	cgattgcgcc					
25620	aaaaaaaag					
25680	ccgaggtggg					
25740	cccgcctcta					
25800	cagctactca					
25860	gagccgagat					
25920	aaaaaaaaa					
25980	aaccaaaaaa					
26040	ctgggtgcag					
26100	acttgagccc					
26160	aaataaaaat					
26220	taggaggttg					
26280	agtgggaccc					
26340	tcccaccact					
26400	gatgaaacct					
26460	gtaatcccag					
26520	ttggactgaa					
26580	gcttccgacc ccttccttct					
26640						
26700	ttatcttttt					
26760	atctctcacc					
26820	tetetteete					
telegiggit		caccicicygg				

```
26880
accccccaa gcgctttgcc ttttttttct ttgcccttta ttcccccc
26928
<210> 7
<211> 29430
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (4336), (4345), (4349), (4392), (4447), (4490)
<223> Identity of nucleotide sequences at the above locations are
unknown.
<400> 7
aggggaaggg ccggctccgt agctcacacc tataatccca gcactttccg aggagagagg
                                                                     60
atcatctcag gccaggagtt caagaccagc ctgggcaaca cagcaagacc gcatctctac
                                                                     120
aaaaaacttct tttaaagctt aaaaaaaaaa aaaaaagcaa agaggacagt tcaggagaaa
                                                                     180
                                                                     240
agcctgtaga ggcagcacac taaggaggag acgcagccca ggcaccagga ggggctggcc
                                                                     300
atgggcactc actcctccag caggcgagtg cccagcacca gctggcccac ccagacaccc
                                                                     360
aggacacqqc ctqaatqqct ccgtattcac gtgggtggta ataaacaagc aatacacata
gccaataagg acaccttagt aatgttacat cataaacgct gcagatcagg gaaatggtgc
                                                                     420
                                                                     480
agggtgaagt gggttggggg gctgcatgct acatgagaag tgggtcgggg ggctgcatgc
                                                                     540
tacctgagac agagcaggcc ttgctgggaa agaaggagcc ggcaggcctg ggcaaaggtc
ctggggtggg agcacactgg agcagagtgt gggggtagca tggcgggtgc tggtcctctg
                                                                     600
ggcgccttcc caccacgtca tgtgcccatg tgcccaaggt ctctcgtttc acagccccct
                                                                     660
gaageteagg ggteaeaget acaeageece eagatacett ggeetgeece aggteattee
                                                                     720
atccagtgat ggacctgctg acctctagcc tgacctctgg gcagcgtaat ttgagaagga
                                                                     780
ggagaaggga gggcaacaga cctggggcga tgagggatgc acagggtggc agacacctga
                                                                     840
                                                                     900
ggctgcacct tggagcctca gttctgggtg tgggtggggg atggacaggc tgagggctga
                                                                     960
agcagctggg cccggccacc atcacacccc aggacccacc agatcaccat gaaaaaccga
atgtcaactg gcagcccaga gtgcagaaca aacctttcag aaacacggtg gtgactgccg
1020
catcatgaac ataaaataat tacgccctct ccccagggat cacccctgca ggagtttgtc
1080
ccaagaaaca ccagaaagaa ggaaaacgtc tgagtcacaa tatttgctga ggccttattt
1140
gtaatagcaa aaaaaaaaaa aaaaaaagaa caatctccag cggcaggggt aactagacta
ttqtctccgt ggaaaggtag caccaattaa ctagtaacaa aatgactgcg gtaacaacaa
1260
aacgttcgac atgtcaacac caaaaaccac acacccagca taaccgtgaa ccatgatttc
tactagaatg aatggcagtt atgagaaagc accagcggag acaaagattg aaaaagtaaa
1380
ggtggcctca ttagggagac aagtctctgg gtaatatatt gtaatactgg taaatatata
gtttttaata tattttttaa ttccaaattc catatatgtt cctatgaagc tatttctgca
1500
aatatttttt tcaggaccgt acatcacaaa ggcaaaaggg ccaggtcagc tctccagctg
agagtgacca cttcagagca gacggcagac tccagggtta gcaagcctgg ctgagacctg
1620
gcccatgaca atcactcaac ccctctgacc tcaacatcct gtctgtgaaa tggggataat
1680
tactgcacct ccacatcaca gagtgcgagg cttaaacagg atgcttcata gaaaagcgct
```

1740					
	cagccgggag	ggggtagtgg	ttttcattaa	ttaaatgttg	ccttcatcca
	agctccaaca	caaagcacac	accatccact	cagactcagt	tgcctggatt
	cctggcctcc	agctgtgaga	ttccgggcag	gatttcccat	ctcccagagc
	tcattcatga	aacaggaagt	gatcattcct	tttatttta	ttttatttt
	cggagtttca	ctctagttgc	ccaggctgga	gtatgatggc	gcaatctcag
ctcactgcaa 2100	cctcggcctc	ccagtttcaa	gcgattctcc	cacctcagtc	tcctgagtag
ctgggattac 2160	aggcacacgc	caccacgccc	agctaatttt	gtatttttag	tagagacggg
gttttgccat 2220	gttggtcagg	ctggtctcga	actcctgacc	tcaggtgatc	cgcccgcctt
2280	agtgctggga				
2340	tctggctgct				
2400	atgaccagta				
2460	atgtacacat				
2520	cagctcaaat				
2580	cggaggtgag				
2640	tggtggctca				
2700					atctctacta
2760					actccggagg
2820	agaatccctt				
2880	cagcctgggc				
2940					tactgaggca
3000					gccactgcgc
3060					aaaggcccga
3120					agatcatctg
3180					actaaaaata
3240					gaggetgagg
3300					gcaccattat
3360					aaaaaaaaa
ctaaacaaaa 3420	gcaaaaaaac	caatgagtaa	tgttgtcaag	tgaacttcat	cccaatggga

atgcagataa 3480	tttgtttaaa	aggcaccatg	cacactgggc	aggctggctt	cccctgggaa
	tgcctggatt	cccagttggt	ttaatcgggc	gtagaacact	ttcttcaatc
	gcacccctgc	tcagcacaaa	ctcagtacac	cccgcactct	gctgtgggtt
	ttaggagaat	gtgagggggt	gattcagatc	tatctctagt	gggtgcatgt
	caggaacgcc	cacttctggc	aagtcagtgt	cagagaaagg	ccagctcgtg
	ccttgagtcc	caggacccgt	gatcagtcct	acccggagca	gaatcaggag
	caagtgccaa	caatctcatt	ttaacccatg	taagcatatc	caatatttat
	cataacagat	gtctgggctt	ccattccaat	agcctatatt	ttacactgtt
	gttacaccaa	acaagactca	attcaaggta	acccaatcct	ttgctactat
accaaaataa	gcaacatttt	cagtccatgc	cttatatata	ttcaccaagc	attacactag
_	gctcatcgga	gcaagctgca	gcctggacac	aagctagaga	ttaatcagtc
	ctgcgtccag	tgccagcatg	atggaagaga	cagagaaaca	gaagacatca
4140 gggctccaga 4200	gtcaaggagc	ctgcaggtta	gttgggcagg	atatacacac	atacacacac
	acaaaaccac	ccaagaagaa	aaggtgggat	gaatgcatgg	acaggtaatg
	ggggatggat	aagctgactg	caggtggccc	aggcaggctt	cctggaggaa
gaagacctgg	ctgtangtgg	ggtangcang	ctttctaaat	ggggaaaatc	tggctgtggg
4380 tggagttggc 4440	angtttccga	aaagaagaaa	agctgactat	gggtacacct	ggctgttggt
	ggcttcttgg	aagaagaaaa	tctggctgtg	ggtggatcan	gcaagcttct
	aaacctgact	atgggtggac	caggcaggct	tcctagagga	agaagaccgg
	accaggcagg	cttcctagac	agaggaagat	ctggctgcgg	ttagagtggg
	agaagaggaa	gggctgactg	tgggtagacc	tggctgtggg	tagactgggc
	gaggaggaag	agctggagca	ttgaaaaaca	aacatgactt	ggtgaatgtt
	aggcctgatc	cccagaggca	attacgcact	caagttactt	aattctactc
	acaaacaact	tctctgacac	ctaacacagc	tctgggcacc	ttctagcttc
	agcagttatt	cacgctacta	ccctgcacac	ctcctcacac	cccaacccca
	ttctgccaga	tgccaaagct	cctgatgcca	aagcctgggt	ctgcttccgg
	gtctaactgt	ccaccccgca	tcggcatgat	gtgcaaaaac	aaggctttgc
aatctgccct	gatgcctggc	ggagcgagtc	cctcccgatt	cgtctccttc	agaaacacct
5100 gggctgccct	ggtcctgtta	tacccccaac	acattctaca	gtcagctccg	caagttccac

aaagatcaac gctggcgttt ttatggcatt ttatttacag tttttacaat ataaaaaagg 5220 aaggatgcca cagctcagcc agcaggacag acagagatct atgatgcttc tgctgcacca 5280 ttgtttgtgg tcaagaaagt ctgttttcaa tgatttatta aattgtggtg ggagatggat 5340 ggtggcagtg gttaccagca acatgaatgt tcttaatgcc actgaacttc acacttacaa	
5280 ttgtttgtgg tcaagaaagt ctgttttcaa tgatttatta aattgtggtg ggagatggat 5340	
5340	
qqtqqcaqtq qttaccaqca acatqaatqt tcttaatgcc actgaacttc acacttacaa	
5400	
atggttacga cgataagtgt tatatgtatt ttaccacaat taaaaacagg taaatgcagg 5460	
ccgggcacgg tggctcacga ctgtaatctc agcactttgg gaggccaagg caggcagatc 5520	
acctgaggtc aggggttcga gaccagtctc gccaacacgg tgaaactctg tctctattaa 5580	
aaatacaaaa attagccaga tgtggtggtg catgcctgta atcccagctt ctcaggaggc 5640	
tgaggcagga aaatagcttg aaaccgggag gcagaggttg ccatgagctg agattgtacc 5700	
attgcactcc agcctgggtg acaaaagcaa aactctgtct caaaaaaata aaataaaata	
aaaataggta aatgcaaaca tatggtatag taatattatg ggctattatg agctacaaaa 5820	
aagaatgact tgggactaca gttacagccc tcattcagga atttgtttta aatgtgggtt 5880	
ggtcgctaag gcatgtacac aacattttga cgttcaaata ttcctagatt tggacagtga 5940	
gcacccctct aagctggctc ttctgtccca gaggtcccca ccagtcctcc agaacttctt 6000	
tgctttctta cacaataaga tgccccatgc tcggcttgta cctttccttg ccccagccct 6060	
agaaccaget tettegtgga caagetetga eteetttggg tggagaatgg tatteagaaa 6120	
cccagacctg ggctctggtg tgctcactgc tacttggggt cattgcttct aggcctctct 6180	
gctgatggag gtaggatata cacgtacagt cttccctctt cccagattcc gtacttgagc 6240	
tcgcctactt gctaacattt atttatatcc cccaaattaa acctcacagc acttctgcaa 6300	
tcactcactg acttgcagag tgtgaaaaaa ctgagtcacc atcacacgtt ccaaactgag 6360	
gtcaactgag gccacaacgc cccatcttct tgctccggct gtcgagatgt aagcaagtgt 6420	
ccttctctcg gtctagctag tgccatgctt tccacatcac tgtgcttttt gtgggcaatt 6480	
ttgctgtata aaatgtcccc tgcacatatg ctgctgtgta gtgctcctag gtgcatgagg 6540	
ctgccccacg ccttacagag agaatatgca tgagaggctt tattcaggta tgagttatag 6600	
cgtagttggc catgaattca atgttaatga atcaacaata tacagtaaat aaggtgcttt 6660	
ttagagacag ggtctcactc tgtcacccag gctttagagt ccagtggtgt gaccttggct 6720	
cactgoogco toaacotoot gggotoaagt gatootooca cotoagooto coaaactgtt 6780	
gggattacag gcgtgagcta ctgcactcag cctaaataag gtgtcttaga aacacacata 6840	

agacaaggtt 6900	atgggctgag	tgcggtggct	catgcctgta	atcccaacac	tttgggaggc
	ggttcacttg	aggccagaag	tttgagacta	gcctgggcaa	catggcaaga
•	atatttttt	aaatcagaca	ggtgtggtgg	tgcatgccta	tagtcccagc
tactggagag 7080	gctgaggcag	gaaaatggcc	tgagcccagg	aggtcaaggc	tgcagtgacc
	ccactgcatt	ccagcctggg	gtgacacagc	aagacgctgt	cttaaaaaaa
	aagccaggtc	aggtatcgaa	cagttggcaa	aaacgttgtg	acctgaggct
	tagcccgatg	tttcccctag	gagcaatggt	tcagtattca	ataattcagg
	actttatgga	gcataacttt	caagaataac	aagaaccaac	tgtacgtgtg
	cacactttta	ttttatttta	ttttatttt	tgagacagag	tctcactctg
	tggagtaaaa	tggcgtgatc	tcgactcact	gcaacctccg	cctcccaggt
	ctcagcctcc	caagtagctg	ggattacagg	tgtgccccca	caaccggcta
	ttttagtaga	gacggagttt	cgccacattg	gccacgctgg	tctcaaactc
	gtgatccacc	cacctcagcc	tcccaaagtg	ctggaattac	aggcatgagc
	agcctacata	cacttttata	cacacatgca	tctatgacta	tttctctatt
	tgtgcgtggc	agtacctaca	gtttcagcta	tgtgtctggg	tactgtctcg
tccaagtttg 7800	taagcacctt	ctccaaagtg	caaagcctgg	cttgtgttac	tatccatatg
tttacttatt 7860	tgctcaatca	atttacttat	tagctccata	accagcttcc	catctgctcc
	gctgtcagtc	acctctgcac	cctaccccac	cttgcttccg	gatgctggat
	cccgacacct	ctacatagca	ccaccctcga	catgctgctt	ctttatttct
tatttatttg 8040	tttgagatgg	agtcttactc	tgttgcccag	gctggagtgc	agtggcacga
tccaggctca 8100	ctgcaacgtc	cgcctcctgg	gttcaagtga	ttctcctgcc	tcagcttctc
aaatagctgg 8160	gattacaggt	gcccaccacc	acgcccagct	aatttttgta	tttttagtag
agatggggtt 8220	tcaccatgtt	ggccaggctg	gtctcgaact	cctgacctca	agtgatccac
cttggcctct 8280	caaagtgctg	ggattacagg	tgtgagccac	cgcgcctggt	ctgcttcttt
	caccaacatt	tgtgcaatgg	ggtgggagga	aagaacaggg	aggagagcac
	cctgcactga	atccactgat	caatctgggg	gcaactgcca	tctccatctc
	atccgtgaac	atctactgca	gtcctctcca	atgtccttct	gtaaagttgt
	gcatacaggc	cttgcatatt	agttctcaga	tataatccat	atactttata
	accacattta	aaaaaataaa	actagcatga	ctataacgga	gtctgcaaca

8580 ttctcacaga	ctttatgata	aaacatgaaa	cttcaaagat	acttagggtg	gggcagggac
8640 aatgtttaag	gctgcctgga	agcctcccca	tccctgagcc	agaaagtcct	atctcccctt
8700 caaggggaaa	tgcttgaaaa	agcactgatc	aggctaaaat	gacagggatc	agggagtaat
8760				caaagttcag	
8820				gtgtctacaa	
8880					
8940				cataccttag	
aaatttctta 9000	aggtagaaga	aacaggaaac	acccaggctc	gcttttatgt	agacagttcc
atgaagccag 9060	ggaccttccc	cacatccacg	tttcaattac	ctgcacgcag	ctcacagtgt
	tacgcgtctc	tcctactggg	gtggcggtgg	ccactcaaac	cctcatgcag
	cgcaattttg	gcaacataat	ttcatgtttt	tccttgggct	tttacccaag
tcagtgacac	aattctgcag	ttgtctaaag	attcaaaatg	agggacttga	catttacaac
	tcttgggttt	cctttaacca	agcacatgtt	ctgcctttta	gagaaagctc
	agctggagtg	ggatacttgc	tgacatcttc	aagcacccca	ggaatagctc
	tttccacctt	ggctgaacca	tctatatccc	accaattccc	ccaacatccc
	catccatcca	cccaaggacc	tgctaagcca	ggaggtctct	cccatctacc
9480 ccacagcctg	gcctcagccc	acaagggctc	tctctacatg	aatcccaccg	caccagagta
9540 gaccaagtct	cccgtagact	ccaccctgac	cacctccatg	cctccagcca	ttcccacccc
9600 taaaaaccct	ccctggtctc	tacacccagc	tgatgaatac	ttggctgaat	gtgacctggc
9660 ctcctqqacc	caggtgaagc	ccacgtcctc	cgtaagcccg	ccagctcacc	ctgcctctgc
9720				aggcatggct	
9780					
9840				gctgcctgca	
9900				ccatccctcc	
gctgtctcca 9960	tcaagaatga	gcgagctgct	gacatttgca	tgacaataat	gaataaatac
catattttgc 10020	ttcaaatcca	gaatagatgt	ggccagggtt	ggcatatgac	tgttgggaaa
	cctcttccca	aaccaacttg	gattataaaa	agcttttctt	aacgaccaca
	agctcagggg	cagacaaaag	gaaggctggc	tgcagaaggc	gggagagtgg
ggccttcagg	ggcgggtggg	gagagagaaa	gcctggagct	gcacccccaa	ggtctgtgta
10200 catcaggtgc 10260	tacagaataa	caccacctct	tccagcttgg	ccccacctg	ccctctccca

gcccagtcac 10320	ccagacagca	cccactccc	cacacacacc	tcacatctgc	ccgcctcaca	
	tcggctctca	atgcaacctg	gaacctgccc	ttggcctctc	agctcagcca	
ccccattcc 10440	tgttggcccc	tggcccccca	tcgaattctc	tctaatccta	atgcacacac	
ttgcacactc 10500	aaacacacac	acacacacac	acacacacag	cccagaggaa	aaccataatt	
gactgaggtc 10560	caggcaagtt	tcccgagcag	ggaccacatt	tcaaaggtca	gggaagcagg	
cgaacaggaa 10620	acatacaggg	ggcacgtttg	ggggtggagc	aggaaataag	aaatcacttg	
10680			tttcagacac			
10740			gagatgggcc			
10800			ccaaggccct			
10860			ctggccccac			
10920			acaagcaaag			
10980			cacaccaaag			
11040			ctccacttac			
11100			aggtagaggg			
11160			cggtgaggaa			
11220			gaacattttt			
11280			agtgaaatgg			
11340			aggegeeetg			
11400			ccagaccgcc			
11460			tgcctgggct			
11520			ctttcttgat			
11580			atgacaggat			
11640			agcatggcta			
11700			cagaacccca			
11760			tccagcaaga			
11820			tccaaaaccc			
11880			atactgcaca			
11940			ccactaactg			
etgtatetea	Ligeagtgge	egegeatgig	ctgacaaggg	30099999	22252222	

12000					
	ggggcctggg	agggaaggaa	acaggccacc	agggctcccc	agaaggcatg
	acaaacacac	gcatgcacac	acacgtgcac	acatactctg	caagccctga
gttagcaact 12180	gtggaatgtg	accageteag	tgatcccagg	acaagctgct	agggaatatg
acatttgatt 12240	gatgtctgca	aatgtgcgtt	ttcactaatt	agaaggttta	gggcagagca
gagaaaaata 12300	tgtatttcag	agtcccagtt	tgacctgcca	gaaaccagcc	cattactaac
attcttattt 12360	tcaacaaaat	atagcattct	gattacatac	catcttggtt	ccacgcctcc
tgccttgcca 12420	agcccccgga	agcggcccaa	ggccatggca	aatagtgaga	gaaacagttc
cagggtggag 12480	actgactcag	gggtgtcagt	cagtggggcg	ctgatggccg	gtgggaggcc
agcagtcatc 12540	accetetect	tgggacagtt	gagtagctct	ccccagggt	catgtggcca
ctcaggttca 12600	tatgggaggc	gagaggagtg	gcagagtcca	ggagagtggc	tccgaagtca
ctgttccctc 12660	caggcctcag	tgtcttcatc	cattaaatgg	gtaggctgag	gtctgggatg
acaaggaggg 12720	cttgcactta	ctgaaaccca	tgggaggctg	ttcgccgatt	tcttttattg
atggaagaaa 12780	acactcgtat	aattcaagta	ccaattaaaa	ggcaggcact	ggaaccaccg
tctgccaatt 12840	cctagttttg	cctataccaa	atttgagcaa	gttaattgac	ctctcccagc
ctcagtttct 12900	tcgtctgtaa	aatgagggta	gggatggccc	ccagcccaca	gggcagctgg
aaggattaaa 12960	gaaatcaaac	atctcttaga	gcccacctgg	cacactgtga	tacacaacaa
atgttagcta 13020	tttttgtcta	tgaagtctag	attttatatc	ttgggtgttc	taaagcagga
tacatttatt 13080	taaaaacaag	gattttcatt	aaacacgtac	cccacagaca	gcaaccccat
ggagactgct 13140	cttaattcag	gccagtatcg	aaacgactct	aactacaagc	tttatacagg
tctcttggct 13200	gtccttcaaa	tccaactaag	gtggtacttc	tgaagcactg	tgcacatgtg
tgtgtgcatg 13260	cacacgtgtg	ggaagggcgg	gctcacggat	ccctcaggta	ccccacccac
gcagtctcaa 13320	gtcacaaagc	gacagagcag	ccgaggaagg	tctgtgcccc	actggaccct
cgtgaagcca 13380	ccaactctac	ctctgcgccg	tgtcctgcag	actgggctac	cctttgggtg
gggaccagca 13440	tttgatgcaa	gaaaggcaga	cagaaaagga	aaagggcaag	ttcgactcca
gataacacag 13500	acagtaccaa	gccccagggt	ccataaatgc	cacgcagatg	gaagcattta
	acacagcaaa	cgcacggatc	cagggacgga	ggtgcagact	gcggtgcccc
tgagccatga 13620	ccctgcaaat	taccaccatg	ggaaaggagg	ctgccaaacc	ccccgacagt
cggctgggct 13680	ggcacagact	cgtggtttcc	atcgaggtgg	gaggaggtgg	gacgtcccag

cccctccccc	atgcccactg	cagagggaag	cggccgtttc	ccctgtgtgg	ttacaaaggt	
ctcattgttc 13800	ttcctcacag	ggaggaaact	ggaggaccga	gctcagaacg	cattttagaa	
ctggcagaaa 13860	agaacatctg	gggaaggaaa	cacatttcag	aaacaaacat	acctttgtac	
cagcttttat 13920	tttctttaag	tgttgaaaaa	ataataataa	taaagacatg	ccaaatttat	
catcgctcta 13980	caaaatccct	ttattgagca	aaacgtggca	gctctacttt	caaatgatta	
14040				gaaggccgcc		
14100				tgccagggaa		
14160				ggtctcctga		
14220				aatatgcatg		
14280				tccttggaat		
14340				cactatggtg		
14400				gcgtgcgagg		
14460				ctgcaggaaa		
14520				tccacgcctg		
14580				tcagtcctca		
14640				caaggggacc		
14700				attcccaggt		
14760				gaaagaccac		
14820				agatccgcag		
14880				ggccttcact		
14940				tgtgctccag		
15000				cgctgcagcc		
15060				ggctttggag		
15120				ggatcccacc		
15180				agggcagata		
15240				cccaccatcc		
15300				ctgcaggaca		
15360				actccatgcc		
cccctccca	ccatgaggac	catgaaggct	Leccatgtge	cgcaaggact	ciggigigga	

15420					
	tcctacacag	ccaggcctaa	cgctcttgta	actgggtggt	cccacctggg
ctcacagctg 15540	gagggccagg	agctcaaggc	ttcgcagggt	ctgctctcat	cccagaggcg
atggggagcc 15600	acagcaggct	gcaggagaga	gggtgggccc	cctccacttc	agaggcccca
tetggeeeac 15660	agactggaga	gcacatctct	cagcaaccac	ggagcgccaa	ctgcgcacag
ggcctggtcg 15720	tcagagcggg	gcaaaggcac	tgaccgtcac	ggccagggcg	agggaagacg
ggtgggcagg 15780	gaccttgggc	agaggggaa	gaacctggtg	cccaggctgg	ccctgccttc
15840	ctgagtgggg				
15900	ccccacaga				
acaatgtcct 15960	ctgaaaagga	gaggcgggga	ctgctctggt	gacacctaca	aatagatagt
cagccctcag 16020	cccctgcca	tacttctgac	aaagcagagg	ccccagggg	aggcgcaccc
gaaggtacct 16080	gcacctgtcc	cccagactcc	tagagcccac	ctgaccccat	cccaccaggg
ctccagctac 16140	aaaataaatg	ccgaggccag	ctaggcaagg	acgcacactc	ggtaccgact
gaataggctc 16200	cacgttgtca	tgagcgcaac	ccacaggcca	ccaggccaca	ctatgcagag
ctgagatggt 16260	ttcggccaag	cagcctctca	gctgagctga	acaagtccag	agtccccggg
gggtcgtcac 16320	tatggagtaa	caattgcgat	gcgatggtaa	ccctaacagc	taaccgtcac
tgagccaggc 16380	cctgagctag	gtacttttca	acgctgcctc	tctgcagcct	caggacgagc
ctgtgggagc 16440	ataaagatca	ttccctatca	cggatgggga	aactgagctc	tgaagcagtt
aacgtgcttg 16500	tcccagaccg	cagagctagg	agcaggacac	aacagcaggt	caggcaggaa
cgggtgaggg 16560	gggcctgcat	gggcttctct	ggaggctgcg	catacacgca	acccccagga
ccccgaccct 16620	gcacctgcag	ctcgctactg	cccctcagt	gactccagca	aacctcgggg
taggggaagg 16680	aggctgggaa	tacctcgggt	gtccgaaaca	gcagcttctg	cttggaggcc
actgctgcat 16740	aatggttgct	gcccagcaca	ccccaagcca	cctgtgccac	ctgtggtgac
cttccagcat 16800	gccttggtga	ccaagctggc	cttaggtgct	gtgggcagcc	aagaatagaa
cagggcccac 16860	ccctcctctt	cacactaaca	caaagcaaga	ggcgggcact	tcgactgagt
gcatccctct 16920	agctcaaggg	cctcacggat	cacaggggtc	agggcaagat	cccaattctg
cattcccgtc 16980	tgcctttcat	cctgctctgc	caacaacagc	cagtgaggct	ggggacatcc
ctgaacctgt 17040	ttctcacctg	aaacacatca	taccattgga	ccccagccct	ccgggagagg
ccctaatccc 17100	tgactgtggt	gagatcagat	cactggttaa	gtacccagaa	gggccttggt

caggggctcc 17160	aggggtgggg	ggtgatgggc	gtggtggtat	cccgctctgg	gctatagtcc
accctgatgg 17220	aggaggtctg	tggtcagaac	cgggctgtgc	agggcacagg	agcccagagg
gacccccaga 17280	gctcacctgg	tggtctctga	gcagggctcc	ctcaaccctc	agagaaaagc
	ggccgcccag	agcccagcgc	ctagcaccca	gtggcgtgcc	agacctgcct
	gatctctcat	caccctccaa	gtcagtcatg	cccaacccag	ggacccacag
	cgtgaaggtg	tgctgagtcc	aagaaggcct	tcgacactgg	gaagccaagt
	ggtgtggagc	aggcggaatc	ccaccagcct	ctgctctgcc	agtgggcaca
	gagcagaagg	ggctgttgct	taataaacgt	catttcctta	agaggataaa
	acagatggaa	atttttttt	aattaaaact	ggtggccaaa	gagatggaaa
	tgcctccctc	ccatcgtgac	ccatcctctg	cacacctcaa	gctgttcgct
	ctcctgaggc	actgggggcg	ggtgagaatc	cgtgagccct	cggccagccg
	gagctctgcc	ccaggccatc	agggcacacg	ccgggcaccc	tgggggccac
	gcccagctgg	gtcagcacac	agggccacac	tgggcacaca	agtctctgag
	ggacgcagct	ctcactatcc	caccccacta	ggtcccgggg	atctgtccca
	tgctgtcaca	gaccactacc	agagccatgg	cctgctgttc	cgcccgcagc
	cttgctccac	agggacaggc	aacgccgcac	ttgggggctg	ctctgcggca
	tccagcagct	cagccctcct	gagaaggaga	actccatgct	ctaagaggca
	acggcaccaa	agccaccaca	agcccacggg	gccctgcatg	gcaggtcagg
	cactcgctct	ttgtaaccag	agctgcagtg	gagtctacga	ggcaaggact
	gtggccacag	caaatgaatg	agtgtcccaa	gggagcaggc	ggctgcgggg
	gggacccagg	agtcctccgg	cactgcagca	aactccctgg	gccccctgag
	gtggcaagtg	catgaactcc	cgggggcata	acctgggagg	gtgacactct
	aaattcttga	gaacgcatta	aaaatatcac	tcagtcacct	actctatagt
	aagtaccaaa	gtagccaggc	gcggtggctc	acgcctataa	tcccagtact
	gaggcaagag	gatcacttaa	gcccaggagt	tccaaatgaa	cctgggcaac
	cccatttcta	caaaaaaagt	gttttaaaaa	attacctggg	cctggtggtg
	gtcccagcta	ctcaggaggc	tgaggcggga	gaaccacatg	aacccagggg
	tgcagtaggc	tgtgatggca	ccactgcact	ccagcctggg	taacagagtc
	tcaaaataaa	tttaaaaagc	accaagccag	gcttggtggc	tcacacctgt

18840 aatcccagca 18900	ctcagggagg	ctgaggcaag	tggatcacct	gagtcagaag	ttcgagacca
	catggtgaaa	ctccatctcc	actaaaaata	caaaaattac	ccaggcgtgg
	ctgtaatccc	agctactcag	gaagctgagg	caggagaact	gcttgaaccc
aggaggcaga 19080	ggttgcagtg	agccaagact	gtgctactgc	actcaagcct	gggagacaga
19140	atctcaaaaa				
19200	attccataat				
19260	aagaatgcca				
19320	gggccctagg				
19380	gggtacactg				
19440	cctcacactt				
19500	agggagctca				
19560	tccctggaca				
19620	ctagaggcag				
19680	tggaccatgg				
19740	atgggcaggt				
19800	ctggagaatg				
19860	aaattaatct				
19920					tttcactgaa
19980	agggcctgta				
20040	agagctgggg				
20100	ctccagctga				
20160	ttgggaagca				
20220	agccccagaa				
20280	tcccctagag				
20340					cacacgctca
20400	aatgccccgt				
20460	actaatacag				
gctctgggat 20520	taactaggga	ggggagtgat	aattaactca	gtaattatat	ttgccatcgg

gctaatgcta 20580	aaattagtgt	gcattagaat	ttctttcctg	agcagacacc	ggagtgagtt
	agtggctcgg	gcaagtcggc	acaaagggca	cctccagagc	cttccacaaa
	acccacaaat	gtcaaggccg	gctccactgc	acccagcaga	tgaattcact
	gagaccgcca	gctcatcgga	ggccatttaa	aatccagccc	tctgacacct
	accatttacc	gtccccagat	caagagatca	aagggtggaa	cctgatagga
cggctctgaa	gttcaccaca	aaagcataaa	cgtgcaagca	gagccaatac	gtcttttgaa
	aggtgggaat	ttacataact	gatcttaaaa	tatgttctga	tgcttcagag
	cagcattccg	gtacacaaag	acactcacag	gcagtggagc	acagtgaagg
	aggacccagg	tgtctgtgga	cactacacat	aaaagagcag	catttacaat
	gatggaccat	cccaccaagg	tgttggacaa	ctccctattc	actggccaga
	ataccatata	caaaaaaaaa	aaaaaaaaa	aaacccagac	agaataatgt
	aacataaaac	agtaacagtc	ctggaagaaa	ataatggagg	atatatttat
	tggagtaaca	agggatagga	aaaaagccat	agggaaaaag	tagagttatg
	gcttcttaat	atctttatga	taatgtacca	ccagaaacaa	ggatgaagga
	accagcagtg	aaacctgaaa	caaacagaac	aaagaattaa	agtccatacc
	ctcccacaaa	tctataagaa	aaagataaac	aggctggcac	cgtggcttat
	ccagcacttt	gggaggcgga	gatgggtagg	tcacttgagg	tcaggagttc
	tggccaacat	ggtgaaaccc	tgtctctacc	aaaaatacaa	aaattagcca
	cgcatgcctg	tagtcccagc	tacttgggag	gctgagccag	gagaacagct
	aggcagaggt	tgcagtgaac	caagatggca	atcgcgccac	tgcactccag
	acagcgagac	tctgtctcaa	aaaaaaaaa	aaaagaagaa	gaagaaaaaa
	agacaacaga	aaaatgggcc	aaggataagt	gtaggcaatt	tgcagaaaag
	taaaccagaa	atgagggttg	tgcaaatcaa	aaggtgttat	aatttttaac
	caaagaaaac	accaaaaacc	aaaatcttgt	aattgccagc	atcagagagg
	gtgtgtgttc	tcgtagatgc	ttgcaggtat	gaactgctac	agccttttag
	tgtatgtatg	cttgtatgta	tgtatttgag	acagggtctc	gctctgttgc
	tctgttgcag	tgctgtgatc	atggcttact	gcagccttga	cctcctgagc
	ttcccacctc	agcctttcaa	gtagctgaga	ctacaggagt	gtgcaatcat
22200 actcagctaa	ttttttaaat	tttttgtaga	catggggggt	ctcccaattt	tgcccaggct

00050					
22260 ggtctcgaac 22320	tcctggactc	aagtgatcct	cctgcctcaa	cctcccaaag	tgctgggatt
	gccactgtgc	ccggcctcaa	tatctttaaa	aacagaaatg	gacacactct
	atgtatccta	taaaaacact	tatacacatg	cagagacaca	cgagcaagca
tgctttgtaa 22500	tagcaatgaa	ggctggaaaa	actcctcaat	caggtaaatg	ctgtcaagtg
cacctgtgta 22560	ctatgaaatg	gcacttggct	tttaacaaga	gcaaagacag	aaaagcaaaa
gtacaaagta 22620	gggtgtgatg	gcacatgcct	gcagtcccag	ctactcagga	ggctgaggca
22680	ttgagcccag				
22740	ataataataa				
22800	aggctgaggt				
22860	aagacaccca				
22920	tcacgcctgt				
22980	gttcgagacc				
23040	gctgggcatg				
23100	cagggtggca				
23160	gtgagactcc				
23220	tgagggaggg				
23280	aggcctcagg				
23340	gattggaatc				
23400	tgcctctcaa				
23460	ttcttgcaat				
23520	gagccgttgt				
23580	cctccttgag				
23640	gcagtggctc				
23700	gcccaggagt				
23760	caaaatcagc				
23820	agaggattgc				
23880	tccagcctca				
gggtgtggtg 23940	gctcacgcct	gtaatcccag	caccttggga	ggccgagcgg	gaggatcagg

agatggagac 24000	catcctggct	aacacggtga	aaccccgtct	ctactaaaaa	tgcaaaaaat
	tggtggcggg	tgcctgtagt	tccagctact	caggaggctg	aggcaggaga
aaggcgtgac 24120	cctgggaggt	ggagcttgca	gtgagctgag	atcacaccgc	tgcactccag
	agagcaagac	tccatctcaa	aaaaaaaaa	attaaatctc	aaaaaaatt
	aaactaaaag	atgtttaaaa	tatatatatt	aaattaaata	cactccaata
gagcaaatac 24300	gaaaataccc	agaaaacaca	atccccgcac	ccccaggaca	acctcccagg
gggtccacag 24360	caagagaccc	caagcacgag	agacagagaa	cagtgtccct	gtggcggaac
ctctggccca 24420	tcaggctcta	ttagaaaata	aggetettge	cactgagaga	aagaggcaca
gtcgcccagc 24480	agccacgggc	tctggcacac	cacgagtcag	gccagcaaag	tgtcaactgc
cccctacaag 24540	gtgacaaact	aggacaaact	ggaaaccaga	ggctggacct	ggagcacagg
gaccaccaca 24600	tggggctggg	gaatgggcag	ggacctcaga	gcgccaccca	catgcctaag
agcagcgcgt 24660	atgcgcatgc	ctctgcatgg	cttagggaca	cagggagctc	ccccacccc
caacccagga 24720	aggcagcccc	cactacccag	gtagggaacg	gataggacca	gcaccccgtt
ctgctcgtaa 24780	ctcagggctc	caggccccct	cgggggcaac	cagcacagag	ctcagacccc
aaatatcttc 24840	acccacctcc	tggtccccat	ctggacaagg	gtgctgggga	ctggctctca
gtcacaccct 24900	cggggtactc	ttcaaaggac	agctggatgc	cccagggcag	gagcttttgg
cccccagctc 24960	cctcacccca	gacaccagct	cttgggaccc	caccagcatg	ggcaaggtgg
acaccatcgt 25020	cccgattttg	cagatgagga	aactgaggct	gagggctggc	acacggctct
ccagagctga 25080	agagaatgca	gagagcagcc	ggagccagcc	ggtgggtccc	tgaggccggc
tcgtagcaag 25140	ccacagetge	ctccgcccat	cacacttgga	cctcactggc	cccaggacag
ccctccaggg 25200	cggcctggca	cagageeeae	accctgctgc	ttcctgaaca	aataagtgaa
caaggccacc 25260	aagccgagga	cctggatgta	gccccggctc	ccgccagggc	ctccccaaca
gactccccat 25320	ttggagagcg	cattaagtgt	ttccaaagcc	tcacaaacca	cagatgtccg
gctgtctcac 25380	ggcttctgta	acctgaactt	ggccctcact	ctgccctccc	agcactcctc
tcagggccca 25440	ggcccctcct	ctgagatgcc	agcactgact	ccccaacttg	tccccatcac
ctggctcgtt 25500	cctgaacctc	ggcaggagag	tctcaggcca	gatcctccca	ccagccacct
ccaccaggat 25560	gcaggaggca	tgagacctgc	tegtgeegge	tgggagatgc	aaccaaccaa
gatcaatcca 25620	atcagcggat	gaactgacaa	atataatgtg	gtccctccac	acaatggaat
attattcagc	cacaaaaagg	gctgaaatag	gccgggcgtg	atggctcaca	cctgtaatcc

25680					
	ggaggccgag	gccggcagct	cacttgaggt	caggagttca	agaccagcct
ggccaacatg 25800	gtgaaatccc	gtctctacta	aaaatacaaa	aattagctgg	gcgtggtggc
gggcacctgt 25860	aatgcaagct	acttgggagc	ctgaggcagg	agaatcactt	aaacccagga
ggcagaagtt 25920	gcagtgagcc	aagatcgcac	caccgcactc	caacctgggc	aacagagcaa
25980		ataaaaggct			
actcctgaaa 26040	acgttacagt	aaccaaggaa	gtcagccacg	aagacgcatt	gtaagattcc
26100		acaggcagaa			
ccaggggatc 26160	cggggagagg	gaacgggaag	tcaccgtgta	atgggtatgg	gttttatttt
ggggtgatgg 26220	aaatctctta	taacttgata	gaagagaggg	ttgtaaacac	tgtgaatgta
ccaaatgcct 26280	gccttctata	ctttaatatt	ttatattata	taagtttcac	ctcaatttaa
aaaaaaaaca 26340	actcgacacc	tttcacctag	gaaagatctg	gctttagctt	gcatttcctg
taactcctgc 26400	ctaaagcctt	ccagaagctt	ccgctgcctt	gtggatcaca	accagactcc
acaccatgat 26460	ctggcctcta	agggcctctc	gcaggacacc	ccgagggtga	aggagcaccc
gtgggcccac 26520	ctctgcatag	ctgcaaagct	tettteeetg	tecteceete	tacatgggaa
gctctgcccg 26580	caggggcggg	gccttatctg	ccattctatc	gcactcaacc	ctagcacttc
actcggtagc 26640	agacaccaaa	gcaaaacagc	aacagcatta	taccgggcca	ggtgcacgtt
aactcactga 26700	attcatggta	ggaaggattc	tattcccatt	ttacaggtga	gaaaactgag
gcacacaaag 26760	gtagcatcag	cttcctaagc	ctcccagcac	aggaagcggc	caggctggaa
26820		ctctgtccac			
gctgcagcgg 26880	tgagtgagtg	agtttgtcag	tggactggat	gtccaaggtc	atacaggaaa
26940					tcgaggacgc
tgacacacaa 27000	ctgcgctcac	tgcagctctg	ccagggatgg	ggctaaaggt	ctcacacagg
gcagttaggg 27060	ctccccatag	cctgggagag	gaacggggtg	agataacaga	aactaggtat
ggtgcccgaa 27120	gtcaaacagc	cactgagcat	gtaaacccag	gtgggtctga	ccccaaaccc
ctccaccccc 27180	atcagccctg	caacccgtcg	ctgcaaggga	gaaagcaact	cagaggcctc
27240		cgtgtgtgtg			
27300					atctccccag
gaaagtgctg 27360	aacaaatgct	ggatcgggtt	caccggcgaa	tttcttggaa	ctgaagaggg

gagctaaaca 27420	cacggggccc	tgctttggag	gggactctct	cagggtgctc	cacacagcac
	ccactcagcc	cttctgggct	ctcccagagg	gcccggcctt	ggccttgggc
	ggaacctcca	gggggagagg	gggtgcctgg	acaggccggc	cctggaacaa
	cccgaggaga	gaggactagg	gcttgggagc	tggggaagtt	ctcagcactg
	aacaaagcca	tttccgtgcg	ttcacagctt	ccaattgcaa	caggaagcaa
tcaggaaaaa 27720	taattagcgg	cccacttact	ggcttcgctg	aggtccgagg	catgtatttc
acacagtaaa 27780	accagggata	taacatcaaa	accgttctgc	agaaagattc	ctccctttcc
ttccatttta 27840	ggcctggatc	accacattca	ctggggctcc	caggccttgc	tgcctaatgt
taaaataatc 27900	aactctattt	ttgcctcaca	cacaactgaa	ctctacagct	ataattcttt
ctcctcaggg 27960	gctcgaacca	catggacgac	aggcatttga	ctccagcaac	atcaccccaa
aacgtgcaca 28020	aaacccaaaa	ctgcaatgag	gtgaaaggca	acgcggtcgg	cctagaaacc
cccctttaa 28080	aacaaacagt	ttccccaaaa	ccccttttgc	ctccttgacc	caggcatttc
cggaaaaagg 28140	agcggcgctg	gcctgtactc	cccagatact	gtcgctgttt	tgtcttcacc
ttgttttgct 28200	agctccagac	aaggccccac	aatgtaaaca	cgctcctgaa	agaggcagat
ttggggtgaa 28260	actgtccata	gaatctctag	gcttgggtca	gaggcaggag	gacgtgaaac
aaactccaag 28320	ctcctcctgt	tccccgctgt	ccccacacc	tccaagcaga	ggctgcagcc
tgggggatct 28380	gactacaggg	ccaccccgct	gcaccattca	cactggaaat	attcagggag
acagctgttt 28440	gccttaagga	ggcccagaca	aaggggcccg	aggtcctccc	cgctaaactg
ccacaaacag 28500	aacaggagcc	gcggcgtgca	caggcacttg	cggccgtgcc	acttggccag
ccatactcca 28560	gaaaaacaaa	acacgcacat	ccgaagagaa	tgatttaggt	agcaagaggc
ttgcttgaaa 28620	aaccacatgg	caatctccaa	attaaaagaa	catgtgtagc	gtttcacgac
tgcttaagtt 28680	tcctgagtcc	tcctgacctc	aactccaccc	cctgggaaac	accaaaagtt
ggatgagaaa 28740	gttcccccgc	cctacctctc	cccacgggag	tgtacaactg	aggcacaagc
ctgcctcccc 28800	cactgccccg	cgatctggga	ccacgtctcc	tccgcgtagc	cgacccgggg
atggacacta 28860	tctggggacc	cggcggccac	acggggcatt	cgggtcgccc	gggcacctgg
caggtgtcag 28920	tccgcttgga	aacccacagc	cacgcggctc	acaggagcag	cgccaccggc
taggccgccc 28980	cgcgcccggg	ctcagaactt	tctcgctgcc	acttcagccc	gtcctcggag
cacgcggggc 29040	ggccgcgcgg	ccgctggaaa	caggcttgcg	aaccggctcc	ccgggccagg
cccgcctccg	cgccccaagt	ccccgctcgg	tgcccggccc	gggccacacg	ggcccagcgc

```
29100
gggctcggct cggctcccgg cttcccgcgg gctcgggcag gtgaggaccc gcccgcgccg
cacctggcgg agcgggcgcc ctcctcgcca gcccgggacg cagcgtcccc ggggagggcc
29220
cgggtgggga gacaaagggc ccgcgcgtgg cggggacgcc ggggacggca gggggatccc
gggcgcgcgc cccaactcgc tcccaactcg ccaagtcgct tccgagacgg cggcggccc
29340
cgcgcacttg gccgcggggc cgcccgggcc attgtccgag caacccgcgg cccgtcttac
29400
acgccgggcg cgggaaggta tcgaatcagg
29430
<210> 8
<211> 33769
<212> DNA
<213> Homo sapiens
<220>
<221> unsure
<222> (33739), (33749), (33758)
<223> Identity of nucleotide sequences at the above locations are
unknown.
<400> 8
cttcccctta cactggtcct tcgacccgcc tcggatgaaa actgaatggg tttagcctta
                                                                    60
gaggeteteg gtetetaagg gaggtgggte aggatgeegg ggacagggte etetteetgg
                                                                    120
ggcaacgtgg gggaacgagc cacctacccc tccactgaat tgccctgggg tgtgggtacc
                                                                    180
gacggctcat tcggtgtcca gggtctgaga tgtgttgaca ggaagaatga aaggggatgg
                                                                    240
                                                                    300
gagggatggg gcgaaagaag ccacctgcag ccccaggaac tatctggcca gcacaccgtc
                                                                    360
acccagegge etgagecace cetgecagag ecaggaggag accetgecaa tgggteacca
gtgtgcagga actcagaagg tcatcacagt taataccctc catgccccaa tgtgggaaaa
                                                                    420
                                                                    480
540
ccccggacac ctccatccca cctcatcacc cagccgcagg gccccggcca tccctgcaga
                                                                    600
cagagtggat gtcacaacct ccctgcaccg aaccaagtgc agctcccagg ccacaggcca
                                                                    660
cccaggaaag gtccagtggc ccccggaggc tcccaccgca ggcctcccac cacagccggc
                                                                    720
accaacccag gatagctgtg ttctcctggc ttcttttcac acgggtagca gaaagctgag
atccggggaa agctgagatc cagggaaagc tgagaatcgg cctctgctgc ccggacgccc
                                                                    780
                                                                    840
acceccaget etgeteccag etceagggee teetteteag gtgeeettae aggaggeaga
                                                                    900
gggcttgagc cacctcctgg gcctggggca cgcaggatga acggggtcac ggtgcaggcc
                                                                    960
actytecaet gegeagatee caaggeeata aacageetgg ceacagtgge tteecagetg
gcaggcggcc agattatttt tgttgtttag caattgatta agtttctccg ctgcccccag
1020
gggtaagtgg tggggcaaat gccgcaaccg cagcatttga cccgggatcc tgtgccaagt
1080
qaccataggg tcacaaagca caagggaagt ggctgggccc gatgctggct ctgctggaac
ctgaggccgg ccactgtcac ctgcacggtg cctgggacct tccagcaagc acagagaagc
1200
tatggccctc caggagcagc tggcaggcac cttggcctgc agtcaggggc tctgtctgct
cagetetaaa acaggaaagt egetgetetg eetggggtea gggeageeag agagtgaeea
agteagtgee ggeeteagga agggaeetge aggegggtee etteetetee catecetegg
1380
tgccagccag ccctcctgt ggccccccac tgcctgcctc tgcccccatg ccccaccaca
```

1440					
	catggctgca	tggccactcc	ccaggcaggc	agtggggatg	ggatttcacc
	ggctggtctc	gaactcctga	cctcaggtga	ggagttccta	aagtgctggg
	tgagccaccg	cgccagccct	ccctgtggta	ctaaacactc	acacccctt
	ctggtgaggg	aacacagcct	cacaagtgaa	gtgtggtttt	gttgagcaaa
tgacgcctgg 1740	gcagccctct	catctttgcc	taaaactgaa	gaatttaggg	gcgtggatgt
ataaaacagt 1800	tggtgactta	aatgaaaaag	aaggccacac	tcccccttt	aggcaggcgg
cctaattctt 1860	taaaagccag	cacagggtgc	ctttctgaac	ccaggcacac	agtaggtgtt
caatggacag 1920	cagcggttac	ttgtactgct	catgacaccc	tgtctgtggc	ctctgcagct
ggctccagcc 1980	tgacgcatgg	ctgcgcccct	ccgcaaggcc	accccggtat	acatggaaac
2040				ccagatccca	
2100				caggcccatt	
2160				ctttgggagg	
2220				taacacggtg	
2280				gtgcctatag	
2340				cagaggttgc	
2400				ctctgtctca	
2460				ccctcacaca	
2520				gtggccccca	
cttttgtcac 2580	ccaccccgcc	tcagtggcag	tagccaaaat	aacggattag	aatggaacca
2640	_			cagcagttca	
2700				tccccagaca	
2760				acagccacac	
2820				atccccagag	
2880				cagctccact	
2940				teteccagee	
3000				gctccctaga	
3060				ggagccgtgt	
ggtctggatg 3120	gaggggggct	gtggccgggg	gcagggggca	ggggaagggt	gctccaggtg

gtgggcacag 3180	cacgagcagg	ggcagggagg	tccacactca	gatgtgcaca	gggagaaaca
aatcgtgcat 3240	ttccattgga	ataggcggta	aaaggtagaa	aaacagagtg	ggggccagga
	agccttctag	tgtctctctg	caggtgagcg	gcagcccgag	gtgtcagctc
	gggtccaggg	gccgtgtctt	ctatcactga	ccccagggca	cacggaactg
gggagggaga 3420	gcagaggcac	agggcacggt	cagtgaaacg	aaacaaggag	tcatcaccaa
atgcggaaag 3480	ggcaaggagt	gcccgcagcc	gcacaagggt	tctgtctggg	caacgtgggc
gtcccaccag 3540	gccccgcacc	ctgcaagcgc	aaagctcgcc	actgaagata	aagggaagct
gttggagctg 3600	cggagctggt	ctggggtccg	catggagctg	ggcttatgct	gcagtcacaa
gggggacatg 3660	gaagaggctg	caggggacaa	aaccagtgac	cacagtctaa	ctctgagcct
gtggaaaggc 3720	gcccacagca	ttcacccatc	ccagagatgc	cattccccct	gtgccccgc
tccacggtga 3780	cagcgttctc	caggaatatg	atgcgcccct	ctcctcttgc	atcagccctg
acagtgagta 3840	ttcaggccaa	aaagcagaag	agcacagctg	cgtggttcca	tttccatgta
gttctggaac 3900	aggcaacgct	aatccaaggt	gatagaagtc	aggagagtgg	tggagggggc
gggggttgag 3960	gatggcaaag	gggcaccggg	aactttccca	gtggtagaaa	tgttctctgt
4020				aagttaatcc	
4080				aattaaaaaa	
4140				gattttcttg	
4200				gcaaagtcaa	
4260				cttttttccc	
4320				acgcccgtta	
4380				agacggaggg	
4440				cgacagtggc	
4500				tectgteect	
4560				cccacaaatc	
4620				ccaccctctg	
4680				ggtgcacgcc	
4740				aaaagtcaaa	
4800				gaacagcagc	
ggcggtggca	actcccaaat	aaggcctcac	tcctgctgtt	tttagctcat	tccacataat

4860					
	tggcagaaac	cgaagccagc	tgctgccttg	gtcctggggc	tgtgtggagg
gggtggggag 4980	gccggaggcc	caggctctgc	actcgactgc	tggggatgag	agtgactctg
agctgcagag 5040	agcagcatcg	cagccgccat	ggtcccattg	agccccggcc	acgctgggcg
gcagaggctc 5100	gtgggatata	cctgccctgt	ctcatggggg	tcacttcagg	aggggcgggg
gagccaggac 5160	acagcccagg	gctagcggtc	accctgcagc	tcaggggcca	cgtaaatagt
gccaccttga 5220	aggcacacag	cagtgcgggg	cccccccgc	caccaacgca	tccctacctc
taggaggccg 5280	cctgtgtgcc	cctgggaacg	ctgctccctg	tecettgggg	tcctggtgtg
accaccctct 5340	cagccccttc	cttggggaag	gcacctgact	ccctacaccc	agctggcttt
catttgctca 5400	aaatcaggaa	aaagcagaat	tcaagacatc	acagaaatgt	cttcgcctgt
aactccatga 5460	aagataaacg	gtcagacacc	caggagggag	tcccagggac	ccttgagtct
cacctgaggc 5520	tctggcttca	aacctcgaga	tgtttccagc	catgctagcg	ccgccccca
caacctgccc 5580	cacacagtcc	tcccttggga	actcacagat	ttggccccca	cctgccccgt
ttcttctggt 5640	ggagtgggtg	cgttgggttg	gggtggggct	ggggactctg	gatgtgtctt
aagagtctga 5700	gtgattctga	cacagccagg	ccctgccccc	ctcctgacct	tcgccccaca
ggaaagggag 5760	ccacacgcct	gaagcgccca	gcacaccccc	ctccgtcctc	cccaggtcac
ccgctggccg 5820	tgtgagccgt	gctccccact	gccccttcac	ccaccccagc	tcctcctggc
agcacccagc 5880	cttggaagct	acttctgatt	acaaccgccg	aaggaagact	cgctccctcg
gcactgaccc 5940	agacagcctg	caccatcacg	ctgctcagca	caacccacac	agccttcctc
caaaccccat 6000	ggagcgggga	gtataatcac	cccctttcta	ccaacggaca	aactgaagca
cagagaggtt 6060	aagtcacttt	cctaagctcc	caacacgatg	acaaaaaata	gaaggtcagc
ccgcaagtgg 6120	aactaggtgc	tccaagtccc	cggtctgcct	gacactgcac	ctcctcgccg
ccacggtccc 6180	gggtccgcct	gacactgcac	ctcctcgccg	ccacggtccc	gggtccgcct
gacactgcac 6240	ctcctcgccg	ccacggtccc	gggtccgcct	gacactgcac	ctcctcgccg
ccacggtccc 6300	gggtccgcct	gacactgcac	ctcctcgccg	ccacggtccc	gggtccgcct
gacactgcac 6360	ctcctcgccg	ccacggtccc	gggtccgcct	gacactgcac	ctcctcgccg
ccacggtccc 6420	gggtctgcct	gacactgcac	ctcctcaaca	ccaccacggt	cccgggtctg
cctgacactg 6480	cacctcctca	ccaccaccac	agtcccgggt	ctgcctgaca	ctgcatttcc
tcatcaccac 6540	agtcccgggt	ctgcctgaca	ctgcatttcc	tcatcaccac	ggtcccgggt

ctgcctgaca 6600	ctgcacctcc	tcaccgccac	ggtcccgggt	ctgcctgaca	ctgcactttc	
	tccttggccg	gctcccaact	acaaaccaag	ccatgtcttc	catcctgaat	
cctcttggcc 6720	taaacatcac	tcacaatgcc	teceteggga	acaggcacaa	gtcccaccag	
cacagcetee 6780	ttcgttacct	gcgtttccgc	tagcccaggg	ccagctccag	ageceteace	
acagageete 6840	tatccttcac	ccccggacac	tggacctcac	caacccatag	cctggaggag	
atccctgtgt 6900	gaccccaggg	cctcctctgc	ccgactctga	atttcactgc	ccaacgtgac	
acctcggaag 6960	gctctctggg	cactggcagc	cctccatggg	caccgctcct	tctggccagc	
7020	cggctggtga					
ccgtgctgtc 7080	agctgcaaca	agcgacagaa	tttcacgttt	tcttcacgtt	gcccctgggt	
7140	aggtagtttt					
gctaattcat 7200	gcccgccggg	cgcacggccg	caataccaat	gggcacctgc	agcctggaaa	
gccacagagg 7260	aaccgagaac	agcgactgtg	ctcaggtgac	aggactgtgg	tcttttaaca	
7320	ctttaacgtg					
ttggatacta 7380	aagccccagg	ctgccgcgtg	gtctgctttg	tgaagtctga	agcccgcgcc	
ccattctggc 7440	cccgctcaca	ggtccggctc	tgactcacca	gcttcaatgc	taggccgtgc	
ctgtcctcca 7500	accagaacat	gacttcctta	aggacaaagc	cgtttctcgc	ccatccccat	
ctccctctgg 7560	attaagaaat	atgggaagat	cttctagaac	cacctcaaat	ttgcagagag	
ccatcctggt 7620	gacaaaccct	tgaaatgctt	ctaagaagag	tttaggtttc	ttctcaactc	
taaaacctct 7680	agaaaactct	atttccacac	cagetgeece	tggaacactt	cagcttcaaa	
7740	gcagggagac					
7800	gggtggggcc					
ttacaaaaaa 7860	aagtgaactg	aaacgctcac	gtcctcatgc	aaaaccagac	tcccagttgc	
atctttctgt 7920	ctcattgagg	agctttttcc	tccctttgac	agaacaccct	acacacggca	
tctggaacca 7980	aagcagaaag	attcaggctc	agagtaaaac	agtccccaca	ctggctgcat	
8040	ccggcccaga					
8100					ctcacggctg	
8160	cagttcccac					
8220	gctgcgtgct					
ccaactggaa	gggcagggct	cgctgctagt	ccagcggtcc	aaccccacag	gtgtctgtgg	

8280					
	atgccacaga	gcccagggct	ggggccagag	ccaccaggcc	ccctgccagc
ctgcaggggc 8400	ctcctcctct	gggtagccta	accaccccct	gtgagcgcag	gcagcctcct
ctaatcacca 8460	cagggcctgt	cccccctct	cccccgcttg	caggaaaatg	agccctgagg
actccccagg 8520	gctgctctgg	gcctggacat	ggagactggg	aattacattt	gcagaaggag
cgcaatgccc 8580	ttgaagggct	cagccacgag	cagccagtcc	ccagggctca	gaaggcccag
ctgttagaac 8640	cctgggagcc	agcaaagagc	caggggctcc	acctaagtct	atagcccctg
cctcttctgg 8700	ttgggaaaga	aatcaacgcc	cctttactgg	ctcccactga	cagcccactc
ccccaggtat 8760	gggaggattc	tgggacgatg	caggcaaacc	tggaccctga	gtgaacctgc
cccagctctc 8820	acgggcctgg	caccagccac	agcacctaag	gcgccggtca	tggtgacaac
atgaaggtga 8880	taagggcatg	gacagtggac	atggcagctg	gacactgggc	acccactgga
tgccaggcac 8940	ccagcacggc	tccgtcaccc	ctggatgagc	agtggccctt	tgcaagccag
ggtagcctgg 9000	gcaagttatt	tgggggtctc	caagcttgtc	cagctgtgcg	acttcactga
gccatgagtc 9060	tgggatttta	tcagggccca	cacccgttcc	tggaactctg	atacgtgagg
gagccacaca 9120	gggaccctta	acaaaagctc	ccagggcaac	atgttctctt	gcctcagtct
cccaaatagc 9180	tgggattaca	ggcgcacgac	taccgcccgg	ctaatttttg	tatttttagt
agagacaggg 9240	tttcaccatg	ttggccaggc	tggtcttgaa	cccctgacct	caaatgatcc
ttccactgtt 9300	agggcaaggc	acctgacagg	cacgactgca	cgatctgctt	gttgggggct
gtgtccattc 9360	cccactcctt	cgacaaatgt	ccacacccag	ccttgctttg	acaccccaag
aacagagatg 9420	gtgacacctg	cttcctacat	gcccattgct	ctcccaaggc	agacatcccc
agcagatgca 9480	acacagtgtt	taggcagaca	tcaccaatcg	atggtggcaa	cagacaccag
gccctgctcc 9540	ctctaactcc	agtggccagg	ccccaagcca	gctctcacct	gcccactccc
aacccacagc 9600	agcaagactc	agaaatggca	aaaacacaaa	gagaacagaa	acgccccata
gcgggaggat 9660	gactaaaaga	catgtcttga	taagatattg	ttcaggcata	ggccaggcac
agtggctcat 9720	gcctgtgatc	ctagaacttt	aggaggctga	ggtaggtgga	tcacctgagg
ttaggagttc 9780	aagaccagcc	tagccaacat	ggtgaaaccc	catctctact	aaacatacaa
aaattagcca 9840	gacatagtag	cgggcgcctg	taatcccagc	tgcttgggag	gctgaggcag
9900	tgaacctggg				
aacagagcaa 9960	gactctgtct	caaaaaaaa	aaaaaaaaa	gatatccttc	actaaaactc

atgtctttga 10020	tacatattta	cctcctgcaa	tcgcaaatgc	ttctgcagtg	cataaagtga
	aggaagcctt	acggttcgat	cacccacaca	gacacacagt	cacatacagg
	ggagggctgg	ggaacaaaaa	aacagaagat	aaaatgtgga	gacagacaca
	aagagaccac	ctccagacct	cccttcagct	tctcaaacac	acgagccggg
	aatttgcggg	gaccgctgca	aaatggaagt	gcagacagcc	ccttactcaa
	tttcaggtca	acaacagagc	tcacctcata	tgactacaca	ggtcacacag
	cggtcccaac	accagcatgc	tcctgcctca	aagccgctgc	acgtgctgtt
	tttccctctt	ttagtccttc	agatctcagg	cctcctgaga	gagacctctg
	tcaggcggcc	acacccccag	tacaggagtc	tccggctcag	cccctgctgt
	cgatccaggt	ctgtcctatg	tccatctgtg	tgccggcttg	cttcctgaca
	cacacgtgtg	cctcggggca	ggggaacagg	cccgtctcat	taactgcttt
	attttctgga	atatttgtgg	atattgggca	acatatatgc	tccacctttt
	caggacgagc	tgcattttt	tttttttt	tttgagacag	ggtctcactc
	gctggagtat	agcggcatga	tcttggctca	gtgcaacctc	cgcctcctag
	ttctcctgcc	tcagtctccc	aagtagctgg	gattacaggc	ccgtgccact
	taatttttat	atttttagta	gagatggagt	ttcaccatgt	tggccaggct
	tcctgacctc	aaatgatcca	cctgccttgg	actcccaaat	tgttgggatt
	gccactgcgc	ccggcccgag	ctgcctgttt	tacacctttg	ccatattccg
gtgattctct 11100	ctcccctccg	tcccccggcc	ctgactgtgg	tggccactcc	ctgccgtcat
gagcccgtat 11160	gtcctcactc	tttccctttc	cgccaggact	tcaaccaaca	ctgcagagcg
cagggtccag 11220	ctccagcact	gagttcagcc	tcttctcacc	aacagacagg	caggaaagaa
aacaaactct 11280	gagaaggcca	aggttcccgg	gcagccagca	agccaagcat	ccttctccgc
tgaggcttgt 11340	gcagccgagg	cacccctcc	tccagggagc	aggcagcgtc	ctggggcagt
ctgcgaggga 11400	gaccagggcc	cttgctccac	cagggcccca	ggtatggggg	cagcagcaaa
11460	tgggagccag				
11520	tggtgacttg				
11580	cctcccttc				
11640	ccaggtcact				
tctctctcaa	cattgccttt	gaggccgagg	tgaacggtca	acagcgaagg	gccccagagg

11700					
	gegggtgtee	aagacactca	ccctttctaa	tgcactgact	ccctcgtgga
	ccgtctcccc	cacccaccca	gccccagagc	ccagagtgcg	agcgccagag
	ctgtctgcac	cgcggggtcc	ccagtgcctc	ggagcaatgc	cagcacccgg
	acaaatgcct	gctgaatgag	caaatggatg	gatgaacgaa	tgaatgagca
	tgaatggggt	gctgtccaga	gccgtgagga	ctaggccgcc	caagtcccca
12060				cttggtcggg	
12120				tgatgtaaca	
12180				caaacctgga	
12240				cacgccacgg	
12300				agccagcaag	
12360				gacagcagtg	
12420				gggccccaca	
12480				ggaagccccc	
12540				actttctgca	
12600				gcgctttcct	
12660				ggccagactg	
12720				gtgtgatttc	
12780				tgccccagag	
12840				tgaggaccaa	
12900					tgacctcctg
12960				ggaccacaga	
13020				gttccttctg	
13080				cccgccccgt	
13140				tgcacacccg	
13200				tgggagcagc	
13260					ttccagaaga
13320					cagcctccag
tgtgtccctc 13380	tgcccaaaca	reggeeteaa	graggeateag	ggaccicccc	gcgggcacca

ttccacctgc 13440	ctcatcgctg	gccccgtcca	catggggccc	tcagcctggc	cagacggcct	
gcaatttccc 13500	caaaaccagc	cgtgaccttc	ctggccaccc	tcacacccag	atgtgacctg	
cccatggagt 13560	gacatcctcc	ccatctgctt	cctcccacca	agctcctatg	actagaacac	
13620	tcctcggagc					
13680	gggtcaggac					
13740	aaaggcttgt					
13800	cttcttgctg					
13860	tgaacggaac					
13920	gcagccccaa					
13980	cctcatgctg					
14040	ctccagagag					
14100	acatttcaat					
14160	tecetgtggg					
14220	catttcccca					
14280	attctgggca					
14340	tacctgtgac					
14400	tgagacaagc					
14460	cacacacaca					
14520	cacacatacg					
14580	ggccttgaaa					
14640	gcccccatga					
14700	cctccctcca					
14760	gcagggaggg					
14820	atcctcccac					
14880	tgccccaacc					
14940	ggtgagtata tggatggagc					
15000						
15060	aaggggtgcg					
geggggegga	ggagccatca	ggagggteee	ccyacaytca	cegetgetga	CCCaaccaac	

15120					
	ttttttgaga	tggagtctcg	gtctgtcgcc	caggctggag	tgcagtgatg
	tcactgcaac	ctccgcctcc	cgggttcaag	caattatcct	gcctcagcct
	tgggatcact	gatgcccacc	actacgccca	gatgattttt	gtatttttag
	gtttcatcat	gttggcaagg	ctggtctcga	actcctgacc	tcaggtgatc
cacccacctc 15420	agcctctcaa	agcgctggga	ttacaggcgt	gcgccaccat	gccaggcttc
ccatttgctt 15480	tcaaccagac	aagtgaggcc	aggtcaagag	ccccaggagc	tggcgccctc
gtacatttct 15540	cccggcgtgc	acagggcacc	tcccaaacac	agcctgtgat	ggtgacacac
gggctccccc 15600	aggtcaagtg	gcaaagtctc	ccccagggaa	gaaaggagga	agccatgcct
ggcaaaaagc 15660	acacctctcc	tgcccaacgc	tttaacctct	gtatacaaat	caggccatgt
gcactcgctc 15720	cttcttacaa	tgctcataat	ttatactttc	agagtaaatg	aaacttggca
tcaacccgag 15780	aaacagctat	tcttttctag	atgcttacag	tgcccagcaa	atgaggactc
gggtgtaatg 15840	agattatgga	cactggaaac	aggatcataa	tgtgacgtgg	tcggtaatgt
	ttgcttaatg	accctcgccc	cgtgacaggc	teeetgaggg	tgggcctggg
ggcagaggtc 15960	cccgccacgt	ccccagccct	cagcacagtt	gccaggagag	ggtgacactc
	acagggaaga	tgggagctgt	gggctctgca	gatccaccac	ctcttctgtt
	gatgctgttt	tttaagaaaa	ttattgaagt	aaaattcaca	ggacatacgt
ttactttttt 16140	tttttttt	ggagatgggg	tctcactctg	tcacccaggt	tggagtgcag
tggtgtgatc 16200	tcagctcact	gcaacctctg	cctcccaggt	tcaagcgatt	ctcccacctc
cgcctccaga 16260	gtagctggga	ccacaggcgt	gcaccaccac	acccagctaa	tttttggggg
gtatcttttt 16320	ggtagagaca	gggtttcgcc	atgttgccca	aggctggtct	tgaagccctg
agctcaggcg 16380	atccacccgc	cttggcctct	caaagtgctg	ggattacagg	cataagccac
tgcacccagc 16440	ctaaatttac	cactttaaag	tgaatagtgt	tacctagtgc	attcgcaagg
cggtgcagcc 16500	tccacttctg	tctagttcca	aagcacttcc	attgccccac	aggcaaaccc
cacacccggc 16560	agcagtcatg	ccccagtccc	cgcccccagc	cccggcaaac	acttttgatg
gacttaacta 16620	cacacattct	caacatctca	tataaacgga	atcacaatat	acagcctctg
	tctttgactt	ggcaccatgt	tttcgaggtt	catccaggct	gtagcatgtc
	cccgttttag	gggtgaacca	tattccagtg	tgcagacaga	aaccaatctg
	cacccactgg	gggacctttg	tgtcatttcc	accctcggct	gttgtgcaca

gtgctgctac 16860	ggacattact	gtccattcac	attttgtgtg	aagacctgtt	ttcgattctt
16920	agctaggagc				
aggaatcaac 16980	aaactgtttt	ccacaatgtt	gtctttttg	tttgttttct	gagacagggt
cttgctctgt 17040	cacccaggct	ggagtgcggt	ggtgtgatca	tggctcactg	cagcctcaat
ctcctaagct 17100	caatccatcc	teetgeetea	gcctcctgag	tagctgggaa	cacaggtatg
	gccagctaat	tttctaattt	tattttttt	tgtttttgtt	tttttgagac
agagtetege 17220	tetgtegece	aggctggagt	gcagtggtgc	catctcagct	cactgcaagc
tctgcctccc 17280	gggttcacac	cattctcctg	cctcagcctc	ccgagtggct	gggactatag
tcaccggcca 17340	ccacgcctgg	ctaattttt	tgtattttta	gtagagatgg	ggtttcaccg
17400	gatggtctcg				
gttctgggat 17460	tacaggcgtg	agccaccacg	cccgacctta	cttttaattt	tttaatttta
ttattttatt 17520	ttatttttt	tttttttgag	acagagtctc	gctctgtagc	ccaggctgga
gtgcagtggc 17580	gggatctcag	ctcactgcaa	gctccacctc	ccaggttcac	gccattctcc
17640	tcccgagtag				
17700	agtagagaca				
17760	cgcccgtctc				
17820	tttttttt				
17880	cagtggcggg				
attctcctgc 17940	ctcagcctcc	cgagtagctg	ggactacagg	cacccaccac	cacacctggc
18000	tatttttagt				
ctcctgacct 18060	cgtaatccgc	ccgcctcggc	ctcccaaagt	gctgggatta	cacgcgtaag
ccatggcgcc 18120	cagcccatgt	ggccattttt	cagtgagaga	agccagaggc	ccatcactct
cggttgctcc 18180	ctgggccatg	ctctgcctca	gccagaagca	ctgagggaag	gtcagcctcg
gcccttgccc 18240	cagccacagt	cacagataaa	ggggcctgca	caggtctgtg	tggctccaga
gctcgtcacc 18300	caacacacga	cgcttccatg	tgaatagccc	caggtgcatc	atgaagagcg
18360					ggctgagaac
	ctggagctac	agaccctatg	ttccaaccct	ggctgggact	agctgtgtgg
	attcacatgc	ttctctgtgc	acaggggatc	aaaatagcaa	acacaggcta
	ttcacaccta	taatcccagt	gctttgagag	gccgaggtgg	acacatggct

18540					
	agtttgagac	cagcctgggc	aacatggtga	aacctcgtct	ctacaaaaaa
aataccaaat 18660	aaattagcca	ggcgtggtgg	tacgtgcctg	tggtctcagc	tacttggaag
gctgaggcgg 18720	gaggaacact	tgagcccaag	aagtcaaggc	tgtggccgcg	tgtggtggct
cacgcctgta 18780	atcccagcac	tttgagaggc	tcaggtgggt	ggatcacttg	tgatcaggag
ttcaagacca 18840	gcctggccaa	catggtgaaa	ccccgtccct	actaaaaaaa	tacaacaatt
tgccaggcgt 18900	ggtggcgggc	acctgtaatc	ccagctactt	gggaggctga	ggcaggagaa
tagttagaac 18960	ttgggaggtg	gaggttgtag	ttagccaaga	tggtgccgct	gcactccagc
cagggggaca 19020	gagcaagact	ccatcccaaa	aaaaaaaaa	acaaacaaac	aaacaaaaa
agaggtcaag 19080	gctgcagtga	accatgattg	tgccaatgca	ctccagcctg	ggtgacaaag
tgagaccctg 19140	cctcaaaaca	ataaaaatat	aaataaaaat	aaaacataat	agcaaacgtt
tcatagaggt 19200	ggtatgagca	ttaaatgaac	tgataaacgt	ccctggaaaa	cagtaagtgc
tatggaagga 19260	ttcgctgccg	ccaccgccac	caccattagc	atgtttcaac	ctccatcacc
ctcactgtcc 19320	cctgtcacca	tcctttgacc	agggcactcc	cagctgcagc	ctttctatcc
tcttgtccac 19380	ccttcataac	tgtaagatca	ctcagctccc	aagaaccaca	gtctacaggg
taaccacatt 19440	tccaaatctc	aaaccagacc	cgctggtctg	cacttccagg	gacaacagga
tattttcaaa 19500	ccagcccaaa	agagatgtgt	ggctcagcat	aagaggaaca	ggagaaactg
aggcctcttg 19560	ccctgagaat	gagcttggaa	gtggatgtcc	cggcctcact	caaaccttca
gatgactgag 19620	gcccagccag	gagcttgagt	gtaccctcag	gtcataccct	gagccagaag
cacccagcta 19680	atccactcct	catcactgac	tccctcccca	taaaaaacct	gtttgctgtt
tcaggctgtt 19740	aagttgtggg	ctgttttgtt	acacagcaat	ggataactaa	cacacgaggc
ctggcaagtg 19800	tggagcaaag	ctgcccaagc	cctcaagtct	gttcatgtgg	gtgttggcct
gtgtttgcag 19860	aaatccagcc	actgagtcct	cccatgcagt	cactactgcc	ctctgcacag
acacctgcca 19920	catccctgcc	tgggccagga	gctccactag	tgcaggaatg	gggtctgccg
tcccaggagg 19980	atccctgaca	cctagcacag	ggctagcagc	aggcagcact	tggttagtga
ataaactgcc 20040	cttcacctgt	acacagaagg	gatgtttcta	taaggggtaa	ttaagtacag
agctgggaag 20100	ctatgctgac	cagaaggctc	taaaagcaat	taaccaacga	ggggaaaacc
cttcctactc 20160	atteteggee	cattttattg	agcactgacc	atgtggaagg	cccctggtg
agactgggga 20220	atgcaccaat	aactgagaca	gcttccggct	gttgccctca	ggatgcctga

gctgggatag 20280	ggccagggtg	ggggtggtgc	gtgtgacagg	gttactgttc	acaaccctgc
cgggccataa 20340	gccctcccca	acaattccaa	aatccaaaac	gctctgaaga	tggaaagctt
ttgttgctca 20400	tctggtgaca	aaacctcatt	tggtgcatgg	gccgggtgcg	gtggctcacg
	cagcactctg	ggagccgagg	ggaaggatcc	cttgagctta	ggagtttgag
	gcaacatgtg	agaccccgtc	tctaccaaaa	atacaaaaat	tagccaggtg
	ctcctgtagt	cccagctact	cgggaggctg	aggcgggagg	atcgcttgag
	gggggctgca	gtgagctgag	attatgacat	tgcactccag	cctgggtgaa
	tctgtctcaa	aaaaacaaag	ttaaaaaaaa	aaaaactgtg	catgggtgtg
	agtetttet	gccctactta	gaatgaacgt	gccacatttg	ctatagaaat
	tggtggcaaa	tgccacacag	accctgacgc	tgttccaagt	tctgagaagt
	tcagggcccc	agagtttcag	agaagagtct	gtaggcctga	gttaagaagg
	aaagccctgg	ggacaaaggg	gaaaggggtg	ccccaggact	gcgtgggtac
	gagccgtcca	ggttggcacg	gtggatgaag	ctgagcttgg	cgtcagccca
	tgctcctcca	ggtcgatggt	cagtccattg	ggccagtaaa	tgtccgagtc
	ttccgggtgc	tgccatccat	ccctgcccgc	tcaatccggg	gcgtctcacc
	cagtacatgt	acctgtgacg	ggggcagggc	aagagaagca	gctaacacag
	tgtttttgtc	tgcatagatg	cagacatgaa	acaacagaca	gtgaacttgc
	cacccatcgg	aaataaccaa	caggtatggt	ttcaggtatt	cctgccttaa
gctgggcaat	caaaatatac	tatttccaac	ttgttctcag	ttaacagtaa	attctgggca
	ttgtggatag	aaagattcct	tgttcttttg	atgattgcct	agtgtactct
21420 gctgtaagtt 21480	ttttaaagaa	cttcaggtta	tttctgattt	ttttgctacc	atgaaaatgc
	cctctaaaag	gcaattcaaa	acactcagga	tggaatatta	tttagtggta
	agctatcggc	tgggcccagt	ggctcacacc	tctaatccca	gcactttggg
	gggtggatca	cgaggtcggg	agatcaagac	catcctggct	aacacagtga
	ctactaaaaa	tacaaaacat	tagccaggcg	tggtagtgag	cacctgtagt
cccagctact	taggaggctg	aggcaggaga	atcatttgaa	cccgggaggg	ggaggttgca
	atcgcaccat	tgcactccat	cctgggcgac	agagcgagac	tccatctcaa
21840 aaaaaaaaa 21900	aagaaaagaa	aagaaatgat	ctatcaagcc	atgaaaagac	atggaggaaa
	tgttagtagg	tgaaagagcc	aatctgtatg	agtccagttc	taaacactct

21960					
	aatacacaga	gacagtaaag	catcagtggt	tgccaggagt	tggagaggag
	gagtggagca	cagaaaatca	gggcagtgga	actatcctgt	atgacatgga
atggtgggtg 22140	catgtcctta	ctcatctgtc	taaaccaaga	atgtacaaat	caagggcgaa
ccctcgtgta 22200	aacgtggatt	ttgggtgatg	gtgcgtcagc	cagctttcat	cagttgtaac
aaatgtacca 22260	ccctgcacag	gatgctgaca	gttgggaagg	ctgtgtgggt	gtgaggacag
ggatgtatag 22320	gaactcagta	cctgctgctc	atcaattttg	ctgtgaacct	acaactgttt
gaaaaaatta 22380	agtctattta	aaaacaacaa	aacatggcca	ggcacgatgg	cttgcacctg
taattccagt 22440	acttcgggag	gctgaggtgg	gtgggtcact	tgagccaccc	tgggcaacat
ggcaaaatcc 22500	cacctctaca	aaaaataaaa	attaaaaaaa	agttagctgg	gcatggtggc
22560		acttgggagg			
aggtcgaggc 22620	tgcagtgagc	tgtgactgta	ccactgcact	ccagcctgga	tgacagagtg
agaccctgcc 22680	taaaaaaaaa	aaaaaaaagg	ctgggtgcgg	tggctcatgc	ctgtaattcc
agcgctttgg 22740	gaggccgaga	tgggcggatc	acgaggtcag	gagatcgaga	ccatcctggc
taacacggtg 22800	aaaccccgtc	tctactaaaa	gtacaaaaaa	aaaaattagc	cgggcatggt
ggcggacacc 22860	tgtagtcaca	gctactcggg	aggctgaggc	aggagaatgg	cgtgaacccg
ggaggcggag 22920	cttgcagtga	gccaagatca	caccactgca	ctctcagcct	gggagacagc
22980		aaagaataaa			
23040		aggtctgtgg			
agagacaagc 23100	atcacccatc	catgagaaac	aagcacatcc	tcagggcgcc	cttacgtgat
ctctggccaa 23160	tgaaccaaga	caaagtgagc	agacaccagg	tctgggatgg	caggtcccac
23220		ccctgtttgg			
23280		accagagggg			
23340		gccacaggac			
23400		aggggacagt			
cactcttggt 23460	ccttgtaaaa	tggtgctgac	tcccttgctc	ccttcttcct	ggggtgggcg
23520		ccttagcaag			
23580					tetgggggte
tccattcagc 23640	agaagaggca	aatgacagac	acacagccgc	ctcctcccc	accatggtgc

tctgcagcct 23700	caggageete	aggtgcacca	agggccaccc	catccagggg	gccatgcttc	
cttgagtggt 23760	atcgttcctg	agcgagtacc	atctccacct	tccagagggg	ctgtgacaag	
atcaacaaga 23820	atgagggcat	aggagcctcg	aaccaaacat	gccctcttcc	ctgcagaggc	
tgactgcgcc 23880	cagctgctat	caccaagccc	ctgctcctcc	ggccccgtgg	ggacagggta	
agaggggtgt 23940	cacatggaac	agctctccaa	acagtccctc	tcaagctgct	gtctcctgtg	
24000	gaacccaacc					
24060	gaggccccga					
24120	cacttggtgt					
24180	agcccgggtg					
24240	ccagggaagg					
24300	ctaggagcct					
24360	agtctggact					
24420	gaaaaggctg					
24480	teceegagtt					
24540	cggtgaccag					
24600	gcccagccaa					
24660	tegtgcagag					
24720	tttaaagagg					
24780	cccttgtcag					
24840	cccagatcct					
24900	ccctgggcct					
24960	cctgcattgc					
25020	ctcttgatcc					
25080	catgatgatg					
25140	actgcaggag					
25200	gctcctcgca cactctcagg					
25260						
25320	ctattcaagt					
acaggetgga	accolococo	LULUUULUUU	ccccccgga	gacacygage	Juliang	

25380					
	cctcagggta	ggaccatggc	tggcgtcatc	agcatcactg	gatctgatga
gtgggagccg 25500	gcatctcact	gttttcactc	tctcattcaa	atgactggag	caaagggaag
gtgtggggag 25560	aggcccagga	atcaacacta	aggtcaactt	tgcccccagg	ggcaggggtg
ggagtgaaca 25620	gccacaggtg	tgatcctggg	gagggcttct	gggagagaat	tcagaggcaa
gcatgtagag 25680	gaaccatttc	aaatagttaa	gaaaagccag	agccaaacag	ggacagttgg
ctcgcagaga 25740	tgatgcaggc	aaagccagct	cagatctgag	catgggaaag	actactccca
25800	cagcatctcc				
25860	aatacctccc				
25920	caccaagtac				
25980	accaagcgcc				
26040	ctcccaactg				
gcagagcacc 26100	tcccaaccaa	gtgccaagca	cctcccaatc	aaatacctcc	caaccaagca
26160	ctcaactgga				
aagtaccaat 26220	caccttccaa	ccgagcacct	agcacctccc	aactgagcat	catgcacctc
ccaacaaatc 26280	acctagcacc	tcccgactga	tcacctccca	acctagcact	gagcacttcc
26340	agcaaaagcc				
tggacttctg 26400	gtggcgagga	aagggcattt	ttattataac	gacagctaac	atttgttgaa
26460	gttcttggtg				
26520	tgaggcacag				
26580	agtgccagca				
26640	tacccccaca				
cggtaataac 26700	cgtggagagg	getectgeee	ccacgccacc	caccccacag	ctcactctcg
ctccagccac 26760	caggggatgc	cttccagcac	gagtcagagc	tggcacctcc	tetgetegag
acctcatgtg 26820	teeteteete	acaccttggg	ccctgtttcc	ctacattctg	ctacagcccc
26880					cctctgcctg
gaccgcgctg 26940	ccccagaca	gccacacggt	tctcagcctc	atctgcttcc	agtctcgact
27000					tcgccacagc
acccaagcac 27060	tgctttatcc	ccctacgcac	acgtcccttt	caaatactat	tcatttacca

tctcctccca 27120	ctcactgaaa	gggccagaga	ctgggctata	cccgctgcgt	ggggagcagg
	agggctcaca	aatgcagtgg	atgcctggtt	gggaggtgag	ggagctgcag
	tgggagggaa	cgcaatgaca	ggaggagcgc	aggtcctggc	gacacgatgg
	cgctggtgag	caaccgcagg	ccggccctgg	gagagggctt	ctagcaagct
	gcctctccga	ctactgcaga	tgececetee	tagccagaga	cactgctaca
	cttccaaaaa	gaaggtcagt	aaccccgcga	ctcctggagc	cacagtgcag
ggggagaggg 27480	ctgagagggc	aacagttcac	caagcggaac	agaggctgcc	ccggaggtca
gctggctccc 27540	cggcagctgc	aggggtggct	agcccactcg	gagggcagcg	agggcatacg
aggggctcca 27600	gggatgagtg	gttgcccagc	acagcacccc	tgggaggccg	ggggcacttc
tcaggtagtg 27660	ggggcacgag	gctgctctgg	cctgacctca	gggactcaaa	atactttggc
gataaattcc 27720	accgtgtccc	acccctgctg	gtaccccata	cttacacaca	gactggttca
gatgcagaca 27780	ctctcgcgca	catactcgct	cacacgggca	catacacgtg	cacacacagt
cacatgcgca 27840	cactcataca	cacacaaata	tccactcaca	cgcatgcatg	cacacacacg
27900	ggctcacacg				
27960	ctcccactcc				
28020	tgggctctga				
28080	agtcaccaca				
28140	caaacaccag				
28200	gcaggcccag				
28260	gcagccggca				
28320	ccccaggact				
28380	gggcatggcc				
28440	cctgtggcag				
28500	aggtcaggct				
28560	ggtggatcac				
28620	tctactaaaa				
28680	caggaggctg				
28740	atcgtgccat				
tccaggctgg	gagtgctgag	agactgtggt	gacactgaat	gaactaacag	gcaaagggct

28800					
	cctgggggtg	gtgggaaatg	gctcttgtgt	tctagtcaag	acctctgcca
	acactgaccc	agcacagaac	ctgacaggtc	agcaagggcc	agggcttagc
	taagggtgtg	tgtacggccc	ccagagtcac	tcccaggctg	caagaaaagg
	ggacaagggg	tggccaagca	aactgttccc	tetgeteggg	agtctggggt
gacctggcct 29100	agctggccag	tggagctggg	ccacctcccc	ttaaactctc	caccccggac
ttcgactcca 29160	aagctttcct	gccacccacg	ctctccccac	ctgggatcac	ggccaggccc
29220		tgaactcagc			
29280		aaccactccc			
29340		tagaaagcca			
29400		ccaccataca			
29460		tgcctcagac			
29520		gtctgtaatc			
29580		gagaccagcc			
29640		ggcgtggtgg			
29700		tgaacccggg			
29760		caacaaggga			
29820		agtctcaagg			
29880		ttttttgaga			
29940		agctcactgc			
30000		agctgggatt			
30060		ggggtctcac			
30120		cttggcctcc			
30180		cagagtcgca			
30240		aagagtgaca			
30300					cctgagccaa
30360					cctgagccaa
30420					cctgagccaa
ccccccacg 30480	ggttcatttt	cagagtcaca	cccttttct	gaaaaacaac	ttgggctcat

gcaaattcga 30540	gagagagatg	gtgacactcc	ccgccccctg	gacccaggtg	gagtcgcagc
agggtttacc 30600	cgtgagcggg	gtccaaggcg	atggccctcg	gctggtcaag	gtcctgccag
	tccgggatgt	gccattgagg	ttggccacct	cgatgcggtt	ggtctctgag
	acagcttctt	gcccacccag	tcgcaggcga	ggccgtcggg	agagaccagg
	ccacgttctg	cacggcggcc	cccgtctggt	tcaggtaggt	ctgcttgatg
	tcacgtctgt	ccagtacacg	gctcccttgg	aaaactggaa	gtccactgcg
	ccaggccgct	gaccacgatg	gtggactcca	gcttgactcc	gccggcgtcc
	cgtcccggcg	gttggcaaat	agcaggagcg	gcgaggctgt	ggggcagaag
	gggccactgg	ctaagccagc	aagatacaca	gccctgggat	ggagcactat
	ctcctggtac	tgccctgccc	atgcccaaga	cctccagttc	cttcctccca
	gttgtcagga	agttgcctgg	gcagccccgg	cccgcatcat	tcagaggctc
	gcaaacagcc	ttcttcccac	attcggtgac	agcacctgtt	tgtttaccaa
	tgttccccca	gatatgggtg	accetteetg	ccatgcccaa	aacctcccac
	agaggetaca	ggggccctgt	cctgttctgc	agagaagcca	catccccttt
	cacaggggat	ggggacatgc	aggcacagca	ctggccatgc	tgctcgctac
	acagggccac	attttttgag	gggttcagag	cccaggccag	acagagcctc
	tacaagtctt	tgaccactgt	ccaagctcag	gcccgtttcc	ttggccgtgg
	ccatccaccc	ctgtattcca	tgtttctccc	accctgcttc	tggacattcc
	gggtcactct	ggaatgccac	cccttggctc	agacaccttc	cacagctccc
	ccatgcagaa	caaggtcaga	ccccctagcc	tggcctccaa	ggccttggcc
	cctacacttc	tctccaccac	cccaccccaa	gcattcctga	tctgcctgcg
	ctccctcacc	tccctgtgca	ccgcagccct	cagccccttc	tgcctgtgca
	tctcacagac	aacggtctca	ttcccacaac	gggctcaatg	agaaatcagg
	agaccatcac	cccaccagac	acctcagacg	tcggaccagg	agggtccagc
	acagactcag	agggactaag	aagccacatg	aggagtgaac	acaagatgtg
	ggttaagggc	ctccagggag	ctccatcagt	ccgtgttctg	ctgtcagcag
	ggctggccac	aaacaccccc	aaaaaacatc	tgaagccttg	gcttgaaaca
	ctcatgaaaa	ctgcagaccc	ctgggtcctc	ctgcgcagat	gggggagccc
	acactcccac	cttcaccaag	aaagagaaag	ccaaaacaaa	ctcaactcag

22220					
32220 ccaatgacaa 32280	tcacagaact	gaatcctgta	gttagttcag	ttggtttcat	ttcagcaggg
	cagcctctat	gagggtagct	gggaacacaa	agggccagag	catggcccag
	cgcagtgggg	tagatggttc	cgagcacagg	cctccctgcc	aagacaagca
	tcctggcccc	tcccattccc	aggagacatg	ctccacagga	tgggaggaca
cacagaggac 32520	ctgaggccag	gaaaatgaca	gcggcgcctc	cgccgcccca	cccgtgctgt
catcatctta 32580	ggtctacagt	tctttgtggc	aacgagggac	actgtgaaag	tcaaacaaca
ggaaggcata 32640	ggccacaaat	aaagacaaac	gggacttcat	gggaagctaa	agattttgtg
catcaaaaga 32700	cactatcgag	agagtaaaaa	ggcaacccac	agaatgagag	aaaatatttc
	atctactaag	agattaatat	ccatgaaata	cagagaactc	ctaaaactca
	aacaactaag	ccaactcaaa	aatgggcaaa	caacttgaac	agacatttct
	catataaatg	gccaataaac	acatcaaaac	aggcttaata	tatccctaat
	atgcaaatca	aaactacaat	aagataccat	cttgcaccaa	ttaggacggc
	aaaacaaaat	agcaagtgtt	ggtgaggatc	tggagcaact	ggaacccttg
	gcaaaaatgt	gaaatggtgc	agctactatg	gaaaacagca	tggcagttcc
	aaacacagaa	ttaccatatg	acccagcaat	ttcgctttgg	gttatatacc
	gaaaacaggg	acacaatcag	atatgcatac	accttggatc	acagcagcat
	agctaaaaca	tggaggcagc	caggcatggt	ggctcacgcc	tgtaatccca
	aggctgaggc	gggtggatca	cctgaggtca	ggagttcgag	accagcctgg
	gaaaccccgt	ctctactaaa	atacaaaaat	tagctgggcg	tagtgacggg
	cccagctact	cacaagtctg	aggcaggaga	atcacttgaa	ccctggaagt
	gtgagccaag	attgcgccac	tgcattccag	cctgggtgac	acagcgagac
	aaaacagcaa	aacaaaaaca	aaaaaacaaa	caaacatgga	agcaacccaa
	actgagggat	gaatagcggg	gcaaaatctg	ctccatccac	acaatggagt
	ctcaaaaagg	aaaaagattc	tggtcaggca	cggtggctca	tgcctgtaat
	ggggaggctg	aggcgggtgg	atcacctgaa	gtcaggaatt	caaggcccgc
	ctggcaccna	gctacacana	aagtatangg	ccccggaaa	
-210- 0					

<210> 9

<211> 72049 <212> DNA

<220>

<221> unsure

<222> (8356),(8385),(38585)

<223> Identity of nucleotide sequences at the above locations are unknown.

## <400> 9

<400> 9						
	gcggaccttc					
	tgccacacag					
ttacggatca	aaatcgactt	ttagggtcag	gcgcggtggc	tcacacctgt	aatcccaaca	
ctttgggagg	ctggagttgg	ggttgggggg	tggatcactg	aagatcagga	gtttgagacc	
	acatggcgaa					
tggtgggtgc	ctctaatccc	agctactccg	gaggctgagg	caggagaatc	gcttgaaccc	
aggagacaga	ggttgcagtg	agccaggatc	acgccactgc	actccagcct	ggcaacagag	
cgagactctg	tctcaaaaaa	aaaaataaaa	ataaaataaa	taaatacata	aattgacttt	
taggagattg	gttcaaacaa	tgtgtgtaat	gttgtgtctg	agtgtttttc	atttatcgtt	
catgcaaatt	ccgacatcat	tcactcttct	ccagagtgtg	ctgttttcct	gcctgtgtca	
tcacccgtca	ccttgaatgc	cctcgtttag	gtaaaataag	tacattttat	tcaaaaatat	
ttgaggacat	ttgggttgtc	tccaggttct	tggtcttgag	ttttgctgtt	cttgtggagc	
catggtggtg	tctggttgca	ggaacctcca	tgcgttccag	ctgctgcttc	tgcctgtgtt	
	aaatgctggg					
ctttacqqcc	cttccagaag	cgggagatgc	ccccacttaa	gtgtcagaca	ggcctttcca	
	agctctgagc					
tccacqttta	ctgactgctg	tttctcctqt	taatttgtat	ttatagtctt	cgctaattta	
1020	3 3 3	J	_	_		
	tttggtgttg	tccctattga	cttgtatgcc	ttttaatttt	ttaaacaaca	
1080	33 3 3	J	-			
	tcatttttt	agagcagttt	taagtttaca	ggaaaattaa	gggacaagta	
1140			_			
	cttccacctg	ctqtcctcct	ctcctcctcc	ccaccttccc	tccttcccct	
1200	_	_				
attqtaactt	tctttctgat	attataaaag	tcactcatgg	ctgggcgtgg	tggctcacgc	
1260	_					
ctgtaatccc	agcacgttgg	gaggcagagg	caggcagatc	acctgaggtc	aggagttcca	
1320	-					
gaccagcctg	gccaacatgg	tgaaaccccg	tctctactaa	aaacacaaaa	agttagccag	
1380	_					
gcgtggtggc	gggcacctgt	aatcccagct	actcaggagg	ctgaggcagg	agaatggcgt	
1440						
gaacctggga	ggcagaggtt	acagtgagtc	gagatcgcgc	cactgcactc	cagcctgggc	
1500						
aataagagtg	aagcttcgtc	tcaaaaacaa	agtcacacac	gcttcttgta	cgagggtcat	
1560						
ttggccgagg	ggccagatgg	ctcaccatct	agttgggaca	ggccatgagc	tcggaatgct	
1620						
ttttacatat	ttacatggtt	gagaagaaaa	tcaggagaat	aatgttttgg	gacatgggaa	
1680						
aatgacatgg	aatttgcatt	ttagtgtcca	taaatgaagt	tttgtttgct	cccagctgtg	
1740	J	• •	<del>-</del> -			
ttgactgagg	caggctggct	tcctacagct	gcggcagagc	tgaggaggcg	ggaaggagac	
1800	33 33	_				
	gcagcaccga	aaatatttgc	tctctggccc	ttcccagagt	gcttgccgac	
1860		3				
	cagctagaag	gaaggatagg	acccgtccga	cgataaccac	tgttgacatt	
1920						

tgagcgcgtt 1980	teetteeegg	cttttgtgtg	agagtggcag	tctgtttgct	tttgtggtcg	
	cacgcacggc	gggctgtttg	catgaggctt	cctggaggat	agggctgggc	
	acgcagtggg	gcgtgtcctg	catgcagtgg	ggcctcagaa	gagagctgtg	
	cagtgccaac	gctggtgggt	gccaggcctc	cacgctcaga	tcagccccgg	
	gggccaccct	ctctctggcc	tctgtgcagt	ggcccaggcc	gtctgctctg	
	ttgcctctgt	ccttccactg	aagcgctcct	cttaccctct	getecegget	
	aattgtgtcc	ctcaaggaga	tatgctaaag	gtctaacccc	aggaacctgt	
	taatttggaa	acagggtctt	ggctgatgta	atcaagcgag	gatgaggtca	
	gggggcctat	atccacggtg	ctggtgtcct	catgagagca	ggtgagcaga	
	caggggtgaa	ggctgcatgg	agtcagaaca	gggcttagtg	cgatggcggc	
	ggaactccaa	gtatttcctg	caacaccaga	agctggaaga	tgccaggaag	
	tggagccttc	ggagggagtc	tgtccctgca	gacgtcttga	cttttgattg	
	tgtcttaggg	tgtgtggggg	ggtgcatttc	tgatgttaga	agccacctgg	
	tgtgtcacgg	gagccctctg	caggttctgc	gtgtccatgt	ggtcggggac	
	agggacggac	ggtgtcgagc	tggacatgtc	catgacgtcg	gccatccctt	
gggatggctt 2880	ttttgttttg	aggataaggc	tgcctgccag	gaagctgtgc	cctgcctggc	
	agcccctggc	ctgtgcttgg	cctcgcggaa	gggatgtcgc	ccttctctcc	
tgcatgcgtg	cagggaggaa	ggggagaggt	cagcagcccg	cctggaggag	gctcgggcga	
ggggaaggtt 3060	tcactttcag	gcaatgttgt	ggggctgttt	aaacaacccc	aaagaaaacc	
atttggccaa 3120	actgttagtt	tccaaacatt	ttacttcctt	ggtgtttaaa	taaattccta	
	gtagctggtc	ccagggaagg	agttggcctc	tcttctttat	agcccggcac	
	ctgcacctgc	ccctcccaac	cccaggcctg	cttccccgtg	gccatggctg	
ctgcccggac 3300	ctctctacac	acagaacctc	ctggaggcca	gctgtgggca	ccagccttgg	
cagggctgtg 3360	gcggagccca	ggctgctggt	actctctctg	cagctgctcc	ctgctggcct	
	cgtccccacc	accactgggg	tcacctctgt	gctggtcaca	gctcactcag	
accttcaggc 3480	aaatgggttg	gatectgeet	ctctcccagg	tgtctcagtc	tctgcaaaac	
	cagaggcctt	gcagcctgag	gggtgtcaga	gacacetect	tcgaatcagt	
	agattcaccc	cagcagtgaa	aggactgctt	cgccacagag	gtttgattta	
ctcctaagta	attggaaggg	atgccgagaa	taggttcctc	atggtgggac	tagaggccct	

3660					
ctgctgacct 3720	agttaacaga	gggctagggc	tgggtgtgct	cagcccctga	aggttctagg
cccatttggg 3780	acaccccgcc	agaacctgcc	acaacctgcc	atgtggtgac	agctacctaa
atcccagagg 3840	ctcttgagct	ggagagcaga	cctctcaatc	tcagcaggcc	ccccacacag
accccataac 3900	cctagtctgc	cttcacagta	cagttcgtgg	ctatgtgttc	acggatggtg
ttgttcacct 3960	aaggtctctg	ccctgtgacc	ccaagggcgt	cctgagggca	gattccaagt
	cacccctcct	tccctagcag	cgggtccagg	gcctggcctg	aactagcttc
	actggtggga	tgatgaaggc	agccaggcgg	caagtgaaaa	acgcacttcc
	ggctcctggg	attgaagtgt	ttgaggaagc	aaagtgaagt	gagctttcct
	tgtgtccttg	ggccgggagc	ctaccctctc	tgagcgttgg	ggtccttgtc
	ggcatcctca	tagctcaagg	ggtggtgtgt	gaaaattgtg	ctattgtgtt
	tttttttt	ttcgagacaa	agtctcaccc	caacgcgcag	gctggagtgc
	tctcagctca	ttgcaacctc	tgcctcctgg	gttcaagtga	ttctcctgcc
	aagtagctgg	aattacagga	gtgcgccacc	aggcccggca	tatttttcta
	agagggggtt	ttaccatgtt	ggctaggctg	gtcttgaact	cctgacctca
	ctgcctcggc	ctcccaaagt	gctgggatta	caagcatgag	ccaccgcgcc
	tagtgatttc	ttaggaggac	agagggaacg	ggctggcaag	acaggcttgg
	gggatcaagt	gccggtttct	gtctggcact	ggcgttctct	gtggggccat
	ctgctgaggt	caagcgtgat	tcgtcttgcg	ctgtgcctgg	cagtctcatt
ggaaagttct 4800	gtagacatcg	tgtggatggg	gctcttcccg	gccaagccct	tggggacctt
	gatctcccca	cagtggctgt	taagcaggga	cctttcgtga	agtggagtct
	ccaagtcata	gctagacagg	gactcgggca	tcgccaagcc	tggctgatta
ttcactggat 4980	gaggagacag	gcccagagag	gggcaggaac	ctgcccgagg	tcacccagca
ggccccagag 5040	gtttcggtct	cggattctcc	ctgctcatcc	ctggatgtag	tgctgctgtg
	tgtgctgggg	gctgtggaga	gcagggggct	tgtgccagga	ccccagtgag
	tcgccatgag	gccgactgtt	ggtatggggc	ggccatccac	tggggtgtgg
ggaggaacag 5220	ctttcctgag	gaggaggtgg	cgggaggaac	agcttccctg	aggaggaggt
-	tgtgacctgg	gccttgaagg	acaggtccat	tgtcaacaga	acattttggg
	agagggagaa	aatttgttga	aattcagatt	ccctcccc	taccaataca

caccaaatca 5400	gatgcccctg	accagatcta	aatttggctc	tcagagattt	ccattgtagc
-	gggaaccttc	taagtgctgc	ctctgcctct	ccccagcctg	cctgcctcag
	cctgggcccg	tgtcgctgtt	gccatcacgt	gggcgccctc	tagtggagga
	gcactccggg	gcttggagca	ggagtcagga	ggggctcctg	tctttccttg
	tgccgggatc	ctggaacagt	ctctgcattc	ctcctggcga	gaaccagagc
	gggaccatct	gttgtttgaa	ggctgcagcc	tggcagggca	ctcaggagat
	gctgcagggc	caggtctagg	ggccagggca	tcagggaggc	tctgggctgg
	ggcccctttg	cagattgtga	cctgggcccc	tgtgcagggg	catggccaca
	aggggtctct	gaccctgacc	ttcttggctc	tgtgcatcct	tgagaccaga
	acaaatgagt	agacgatgcc	ctaacctggg	gagggagcca	catcctgatc
ccagcaacct	cgggaaggat	ctgtcaggat	tatggggcac	cctgggggcc	ccaagtctgc
	acttgcaatt	tctgtaggaa	gctctgataa	atccaaactg	ggggtcctag
	gaaatgctga	taccgttgtg	tgtggagcct	cgggccctgg	gggtcaggag
	gtgggccacg	ggggttcaga	agagaatcct	gtaacccccc	acccccaaa
	cttgagggcc	atggctgaaa	ggttgggggg	tctccgtgcg	tcctgtggag
	ggagtccttg	ggtttgcacg	cctctgggcc	tgagcggcgg	gaccccgtcc
	cctgggccct	gttgctcaga	tgctctcaga	gtgttgctgt	ggccacggag
	ttaagcttct	cttgtgccgg	ttgtacgctg	tcaggtcaca	ctggtgagtt
	cagatgccca	gagcagaggg	aactttcctt	ggggattcaa	cacgtgcaag
	tggcaaatcc	tgccctcagc	tagagagggg	gcttttattt	gagaccagaa
	atcctcctgt	ccccagctgt	gtccagcctg	tctgcaggga	catcctgaga
	ctcccctcat	ccacctgcct	aagtgccact	ctgaaccctg	tccacctgtg
	gcgtgacctc	aagctgctca	gccagcagca	ggcttggccc	tggggggcag
	ggtggctgtg	gggtgggtgc	ttcgtggcgt	ggttctgaaa	cttcgttgga
	cagtgccttg	cctgttctct	gtgggaccct	atttagaaac	gaggtctgag
•	tcatcactgt	gttctgatgg	cccagctgtg	tggaggccgc	ggtgcagccc
	gccagggccc	tgggtctagc	cgtgaccaga	atgcatgccc	cggaggtgtt
	cacctgtgtt	gcctggtgtg	tcaagtggtc	gtgaaactct	gtgttagctc
	tgaaagtgcc	cccgggtctc	aggcctcaga	accagggttt	cccttcatct

7080					
cggtggcctg 7140	ggagcatctg	ggcagttgag	caaagagggc	gattcacttg	aaggatgtgt
ctggccctgc 7200	ctaggagccc	cccggcacgg	tgctggggcc	tgaagctgcc	ctcgggtggt
ggagaggagg 7260	gagcgatgaa	gtggcgtcga	gctgggcagg	aagggtgagc	ccctgcaagg
tgggcatgct 7320	ggggacgctg	agcagcatgg	ccagcagctg	ggtctgcagc	ctggtacccg
gcgggacttg 7380	tggttggggc	tggtttgtgg	ccaggagagg	ggctggcagg	agacaagggg
7440		ccagcagctg			
gctgcgtgca 7500	taacctctca	gtgcttcagt	tctctcattt	gtaaaatgag	gaaacaaaca
gtgccagcct 7560	cccagaggtg	tcatgaggat	gaacgagtga	ccatgtagca	tgggctgggt
7620		agcctttgca			
tcccttgccc 7680	ggcccacccc	aggcctagac	ttgtgcctgc	tgcaggccct	tgacccctga
ccccattgca 7740	cctgtctcca	caggagccga	ggaggtgctg	ctgctggccc	ggcggacgga
cctacggagg 7800	atctcgctgg	acacgccgga	cttcaccgac	atcgtgctgc	aggtggacga
catccggcac 7860	gccattgcca	tcgactacga	cccgctagag	ggctatgtct	actggacaga
tgacgaggtg 7920	cgggccatcc	gcagggcgta	cctggacggg	tetggggege	agacgctggt
caacaccgag 7980	atcaacgacc	ccgatggcat	cgcggtcgac	tgggtggccc	gaaacctcta
ctggaccgac 8040	acgggcacgg	accgcatcga	ggtgacgcgc	ctcaacggca	cctcccgcaa
gatcctggtg 8100	tcggaggacc	tggacgagcc	ccgagccatc	gcactgcacc	ccgtgatggg
gtaagacggg 8160	cgggggctgg	ggcctggagc	cagggccagg	ccaagcacag	gcgagaggga
gattgacctg 8220	gacctgtcat	tctgggacac	tgtcttgcat	cagaacccgg	aggagggctt
gttaaaacac 8280	cggcagctgg	gccccacccc	cagagcggtg	attcaggagc	tccagggcgg
ggctgaagac 8340	ttgggtttct	aacaagcacc	ccagtggtcc	ggtgctgctg	ctgggtccat
8400		tggagggagc			
ctgtagaatg 8460	gaacggtcca	tctgggtgat	ttccaggatg	acagtagtga	cagtaagggc
agcctctgtg 8520	acactgacca	cagtacaggc	caggcctctt	tttttcttt	tttttttgag
atggagtctc 8580	actctgtcgc	ccaggctgga	gtgcagtggt	gtgatctcag	ctcactacaa
8640		gtgattctcc			
aggtgcctgc 8700	cactgtgctt	ggctaatgtt	tgtatttttg	gtagagatgg	ggtttcaccg
tcttggccag 8760	gctggtcgca	aactcctgac	ctcaggtgat	ccacctgcct	cagcctccca

aagtgctggg 8820	attacaggca	tgagccacca	cgcccggtca	ggccaggcct	cttttgaaca
ctttgcacac 8880	catgggtctt	ttcatccagg	ggggtaggta	cagttgtaca	gttgaggaca
	gagaggctca	gggacttgcc	cagggtcaca	cagcaggatg	tggcaggtgt
ggggctgggc 9000	ctggcagcgt	ggctccagct	ttccagcata	gaaatctgtg	aaagcagata
gtttgtcggt 9060	cggtagggga	gactttctga	gacccgcccc	agcggctcag	agggtagtag
-	tcctgggggc	tcataaccca	gaacactgaa	tgggaaaacc	ctgatggagg
	gagctgtggg	tgccgatggg	aagtcccaga	ggagctggga	ggtcagtagc
	tctgtggagc	acttagtggg	caccaggtgt	gtttccaggt	tcatggccct
	gctcagaagg	tgaagtaact	tgcccagggc	acccgtcggg	cagcggcggg
	gtgggctgtg	gagcctgtgc	tcgtggccca	gccctggggg	ttgtgagtgt
	gagcttttcc	tgcaagtgga	ctggtgtcta	ggagccagca	tgtcaggcag
	gagtgcagca	ggcagcggga	gcacagcagg	cagagggcgg	ggctcgagca
	gaccctgggg	cacggaggca	tgtgggagag	ggctgctcca	tggcagtggc
	ggttgtgccc	cgaggagggt	ggatgagggt	aagaagtggg	gtccccaggg
	gaggaggccc	aggaactggt	tgccagctac	agtgaaggga	acacggccct
	gcttggtcaa	gtcactgtct	acatgggcct	cggtgtcctc	atctgtgaaa
	tggggaagct	gactccaagg	cccctcctag	ccctggtttc	atgagtctga
	gacatgggct	tggcagtctg	acctgtgagg	tcgtggggtc	cagggagggg
	gaagcgggag	gcagaggggc	tggccggctg	ggtcagacac	agctgaagca
gaggctgtga 9960	cttggggcct	cagaaccttc	acccctgagc	tgccacccca	ggatctgggt
	gggggcccca	gggaacaagt	cacctgtcct	ttgcataggg	gagcccttca
	gaaggttctg	ctctgcccct	tcctccctct	aggtgctcag	ctcctccagc
ccactagtca 10140	gatgtgaggc	tgccccagac	cctgggcagg	gtcatttctg	tccactgacc
	gagatgagct	cttggcccct	gagagtccaa	gggctggtgt	ggtgaaaccc
	gaagtgggca	tccctgtccc	aggggagccc	ccagggactc	tggtcactgg
	ggcatgctca	gtcctccagc	acttactgac	accagcatct	actgacacca
	acaccgacat	tgaccgacac	cgacatttac	cgacactgac	atttaccaac
	aacactgaca	tctactgaca	ctggcatcta	ccaacactga	catttaccga
	taccaacact	atttaccaac	actgacatct	actgacattg	gcatctacca

10500					
	ttaccgacac	caacatttac	caacactgaa	atttaccgac	accgacattt
	tttaccaaca	ccgacgttta	ccgacaccga	catttaccga	cactgatatt
	gacatctact	gacgctggca	tctactgaca	ccgatgccag	catctaccaa
	taccaacact	gacatttacc	aacactgaca	tttaccgaca	ttgacattta
ctgacactga 10800	catctactga	cactggcatc	tactgacact	gacgtttacc	gacactagca
tctactgaca 10860	ctgacattta	ccaacaccag	catctaccaa	caccgacatt	taccaacact
gacatttact 10920	gacactgata	tctactgaca	ctggcatcta	ctgacaccaa	catttaccaa
caccagcatc 10980	taccaacacc	gacatttacc	aacaccagca	tttaccaaca	ccgatgttta
ccaacgccga 11040	cgtttaccga	cgccagcatc	taccaacact	gacatttacc	gacaccgaca
tttaccgaca 11100	ctgacattta	ctgacactga	catctactga	tactggcatc	taccgacact
11160		tctactgaca			
11220		aatatttact			
11280		ctcttggcac			
11340		tcttctccag			
11400		acttggatgg			
11460		tggccctgga			
11520		aggtgaggct			
11580		cagatgtacg			
11640		aatgcttgag			
11700		tacaacgtcc			
11760		acttggagac			
11820		aggggacaca			
11880		acaatacaaa			
11940		acatgggtgt			
12000		gcagttgaag			
12060		tcgccctgct			
12120		ccgctgtggt			
agcctcgccc 12180	tgccgctgtg	gtcgggtttc	agrggccrcg	Lecegiggae	gcagectege

cctgccgctg 12240	tggtcgggtt	tcagtggcct	cgtcccgtgg	acgcagcctc	gccctgccgc
	tttcagtggc	ctcgtcctgt	ggacgcagcc	tegecetgee	gctgtggtcg
	gcctcgtccc	atgggcgtgc	tttggcagct	ttttgctcac	ctgtggagcc
	ttttttgttt	gttgtttgtt	tttgtttgat	tttgtttgat	tgtttgtttt
	gttgttgccc	aggctggagt	gcagtggcgc	gatctcagct	cactgaaacc
	tgggttcatg	ccattctcct	gcctcagcct	cccacatagc	tgggattaca
agtgcccgcc	accacgcctg	gctaaatttt	gtatttttag	tagacagggg	gtttcaccat
	ctggtctgga	actcctggtc	tcacatgatc	cacctgcctc	ggcctcccaa
12660 agtgttggga 12720	ttacaggcgt	gagecacege	gcccagccct	ctgttgagca	tattttgagg
	gccagtgata	tgtacatgtg	tccccatcgc	accatcgtca	cccattgagg
	gcctctcctc	ggggtggatg	cctccctctg	tttccagcaa	cttctgaagg
	gctgcatcag	tccttgttga	cgtcaccatc	ggggtcacct	ttgctctcct
	aggggaggcc	cgaatcaggc	agcttgcagg	gcagggcagg	atggagaaca
	tctgtgttgc	aggatttcag	accctgcttc	tgagcgggag	gagtttcagc
	tggggaaccc	agggatgggg	gaggctgagt	ggacgccctt	cccacgaaaa
	tgcaggtgtg	gccatttcct	gctggagctc	cttgtaaatg	ttttgttttt
ggcaaggccc	atgtttgcgg	gccgctgagg	atgatttgcc	ttcacgcatc	cccgctaccc
13200 gtgggagcag 13260	gtcagggact	cgcgtgtctg	tggcacacca	ggcctgtgac	aggcgttgtt
	tctcagcagt	ggttttcttg	agacagggtc	tcgctcgctc	acccaggcga
	gcgcaatcac	ggctcgctgt	agcctcaatc	tccctgggct	caggtgatcc
	ccctctgagt	agctgggact	acagacacat	accaccacac	ccagctagtt
tttgtgtatt	ttttgtgggg	ggagatgggg	tttcgctgtg	gtgcccaagc	tgatctcaaa
13500 ctcctgaggc 13560	acaagcgatc	cacctgcctc	ggcctcccaa	agtgctggga	tgacaggcat
cagccgtcac	acgcagctca	atgattttat	tgtggtaaaa	taaacatagc	acaaaattga
_	cattttaaag	tgaacagttc	aggctgggcg	tggtggctta	tgcttgtaat
-	tgagaggctg	aggtgggcag	atcacctgag	gtcaggagtt	tgagaccagc
	tgatgaaatc	cagtctctac	taaaaataca	aaaattagcc	gggcatggtg
	gtaatcccag	ctactcggga	ggctgaggca	ggagaatcgc	ttgagcccgg
13860 gaggtggagg	ttgcagtgat	ctgagatcat	gccactgcac	tccaatctgt	gtgacagagc

13920					
	cttgaaaaat	aaataaataa	aaaaaatttt	aaaaagtgaa	caattcaggg
catttagtat 14040	gaggacaatg	tggtgcaggt	atctctgcta	ctatctactt	ctagaacact
ttcttctgcc 14100	ctgaaggaaa	ccccatgccc	accggcactc	acgcccattc	tcccctctct
	gtcaaccact	aatctacttt	ctgtctctgg	gggttcactt	cttctggacg
ttttgtgtga 14220	ctggaatcct	gcaatatgtg	gtccctgcgt	gtggcttctt	tccatagcat
tgtgttttcc 14280	agattcaccc	acacattgtc	gcacgttatc	agaatctcat	tcctgactgg
gtgcagtggg 14340	ttaggcctgt	aatcctaaca	ttctgggagg	ccaaggcggg	acgatcactt
gaggcaggag 14400	tttgagacca	gcctggccag	cctagcaaga	ccccagctac	caaaaaattt
taaaagttaa 14460	ctgaacgtgg	tggtggtggg	cacttgtggt	tcccagctac	ctgggaggct
gaggttggag 14520	gatcgcttaa	gcccaggagg	tcaaggctgc	agtgagctat	gatcgcacca
ctgcactcca 14580	gcctggacaa	cagagcaaga	ccctgtctga	aaaaaaaac	aaaaaaaaa
gttcctttct 14640	ttttgtggct	ggatgacatc	ccattgtatg	gccacagcac	attttgtttg
tctgtttatc 14700	gggtggtggg	cagtggtttc	caccttttgt	ctcctgtgaa	taatgctgct
gtgaacattt 14760	gaattcaagt	ttttgtttga	acacctgttg	tgaattattt	ggatatatgt
gtaggggtag 14820	gattgctgag	tcctatggta	atgttaggtt	tgacttactg	aggaaccatt
aaactgtttt 14880	caacagtggc	tgcgccgttc	tgcatcccca	ccggcagtgt	gtgagggttc
tgactttacc 14940	tcctcacaaa	cgcttctttt	ccatttaaaa	aaatattcag	ccaggtgctc
tggctcacgc 15000	ctgtaatccc	agcactttgg	gaggccgtgg	cgggcggatc	acctgaggtc
aggagttcga 15060	gacgagcctg	gccaacatgg	tgtaacccca	tctctaccaa	aaatataaaa
attagccggg 15120	tgtggcagcg	ggcgcctgta	atcccagcta	cttgggaggc	tgaggcagga
15180		gcagaggttg			
agcctgggtg 15240	acaagagtga	aactccatct	aaaataaaac	aaaaataaaa	ataaataaaa
atttattaaa 15300	acattcatca	cagccagcct	agtgggtgtc	ccatgtggct	ttgcctcgca
15360		ctgagcgtct			
15420		catttgcgaa			
15480		agggggtctc			
15540		agtgttgtgg			
gatgagaaca 15600	ccgaagctca	aaacaggagc	gttttgtcca	cattggatac	acgatgtctg

tggtttggtc 15660	ctgaagtcac	tttatatctc	agtggtccag	actggagtag	gacagggggt
tctggggaat 15720	ggggaaggtg	tctcaggtga	aaggaaggaa	ttccagattc	tccatactgt
ccttgggaag 15780	ttagaagact	cagagggtct	ggcaaagtca	gacaaagcaa	gagaaatgca
gtcaggagga 15840	agcggagctg	tccaggaaca	ggggggtcgc	aggageteae	ccccaggaac
tacacttgct 15900	ggggccttcg	tgtcacaatg	acgtgagcac	tgcgtgttga	ttacccactt
ttttttttt 15960	tttgaggtgg	agtctcgctc	tettgeecag	tctggagtgc	agtggcacga
tctcggctca 16020	ctgcaagctc	tgcctcccgg	gttcatgcca	ttctcctgcc	tcagcctccc
	gactacaggc	gcctgccacc	gcgcccggct	aatttttgta	tttttagtag
	tcactacatt	agccaggatg	gtctcgatct	cctgacctca	tgatccgccc
	cccaaagtgc	tgggattaca	ggcgtgagcc	accgcgcccg	gcccgatttc
	aatctgtctg	tacatcctca	aagccctata	cacagtgctg	ggttgctata
	ggcttacagg	ccatggtgct	ggacacacag	aagggacgga	ggtcaggagg
tagaagggcg 16380	gagagagga	acaggcggag	gtcacatcct	tggctttcaa	aatgggccag
ggagagacac 16440	cctctgagca	tggtaggaca	ggaaagcaag	attggaacac	attgagagca
accgaggtgg 16500	ctgggcgtgg	tggcttacgc	ctgtaatccc	aacactttgg	aaagctgagg
tgggtggatt 16560	gcttgaggcc	aggagttcaa	gaccagcctg	gccaacatgg	tgagaccccg
tctctactaa 16620	atatacaaaa	attagccagg	cgtgatggtg	catacctgta	atcccagctg
cttgggaggc 16680	tgaggcagga	gaattgctta	aacctgggag	gcggaggttg	cagtgagccg
agatcccgcc 16740	actgcactcc	agcctgggcc	acagagtgag	actccatctc	aaaaaaaaa
aaaaaaaaga 16800	taaaaagacc	aaccgaggaa	ttgaagtggg	ggggcgtcac	agtagcagaa
gggggatcgt 16860	ggagcaggcc	accctgtggt	catgcactgg	aagctcatta	cctgacgatt
tggagctcat 16920	cactgggggc	ctaaggagaa	tagatactga	aggatgagga	gtgatggcgc
ggggcacggg 16980	tgtctttggt	ggccagaact	tggggactgc	tggggtgcct	cactgcaggc
cttctcagcg 17040	ccctttatat	gcttacacag	gctgtttcta	agagggggat	acattgcata
agcgttttca 17100	gactacctca	tcatgggtcc	ctttctttac	cctctgtggc	cctggtggcg
cactctctgg 17160	gaaggtgcag	gtggatgccc	agacccgccc	tgccatccac	ctgcacgtcc
agagctgact 17220	tagcctcgag	attgctgctg	gcacctcctg	ccccgggaca	cctcggatgt
gcccgtggag 17280	atgctggctc	tgtgttttct	gctggagttt	ggtgcgtctt	ttcctcctgc
aagtggccac	cgctcttggg	tatgtcctca	ggcttctgcg	agtcatggct	gcttctcagg

17340					
	gcgccaggag	caaaccctcc	tggcactttg	ttcaggggtg	gatgcgccag
tgttcctgct 17460	gtggaccgcc	atctcacatg	agggtcttgg	gcctgcaggc	tcgttcagga
aacacccgct 17520	gagtatgcag	tgtgtgccag	ctgtgtccca	ggcaatggcg	gggacagtgg
ctgctgctgg 17580	ggttgtggtg	gcttctgggg	actctgggga	cagctgaggt	gcaaggagcc
acggctcctt 17640	gaggatgcag	ttggactcca	ggtggaaggg	atggttgggg	gaggtataaa
tggggtcagg 17700	gaggagacac	atttggaaca	atgggaacat	ttttaagatg	ctatgtcggg
aggcaacaag 17760	gtggccaacc	caggtgctga	ggagcccaca	ccagccctgg	acgtgttttg
ccgctcacct 17820	ttgctgggga	gtggtgggag	agaggattcc	gttccacgtg	gtggtgtgcg
cagctgggct 17880	gtgtggagct	gggcgctagg	aggaaggtgc	tttctgcggg	gctagccggg
17940	gaacacaatc				
18000	gtggctgatc				
ggtttcatgt 18060	agatggcatt	agagacgccc	acaacagatt	tacagagtgg	agcggagacg
gcggatgggt 18120	ctgggaggcc	cctcctgctg	gccttgactg	tgacagctgt	cctgggaatc
agcttccagg 18180	ccgccccagc	agcctgactg	acacacacag	gggttttagc	cccatcctgc
gaccagctgt 18240	tgccatcatc	agtgacagct	gggagtggcg	gtggttccag	ccctgggcac
cctcccacc 18300	tgctggggcc	cacccagggc	agtcctgaca	cctacaggtt	gcttggagcc
gcatccgagt 18360	cctgccccac	cacgtgtgaa	gcccgagtgg	tcgtgggctg	aggtcccctg
attgcatccc 18420	cacttccctt	ctgcttcaca	tagctgcctc	ttctcaccgt	ttttccagcc
tcctgggcta 18480	ggaattccag	tgttgtgctg	gctttgcccc	aggacacctc	cttagccctc
18540	tagagccccg				
ctcagcttct 18600	cctgtgagcc	tccagcatgt	cccctcagga	ccaagccctc	acgttcttgc
ctccccgccc 18660	acctgggctc	agccagggga	aggcctggct	gggagcgtct	cccctctgcc
ctgcccttct 18720	cccctcctac	cctgcccttc	tctcctctgc	cccgccatgg	cttttatatc
ctgtgccaca 18780	agacatggct	gtgtgtgaaa	gtggcagggt	ctggcatctc	tgtgggtctc
18840	gctccagtgc				
acageceage 18900	cctctcccga	accccagccc	catgtgccca	gctgccccg	gccctctccc
ctggaagccg 18960	gggtcactcc	agccgtatgc	catggtgggg	acatcctgct	tccttggcct
tccagggaag 19020	gtcctctttc	caaatggcga	cacctggtcc	ctgcctggag	gctggaagct

gtggcccttg 19080	tatgcccctc	cagggtctgt	gcgctcggtt	ggcccgagtt	cccatcaccg
tcatcatcac 19140	catcatcatt	gtcatttcgc	ttgtctgtga	gccggcctgg	tctcccagag
	ctgaggtcca	gcctgagttg	gggtctccgt	gctgacccct	gacggggact
	caggtctggg	tcaggagtga	ccccaaacc	tcgtgccctt	tgacaggcac
	tgctaagtgg	gtggaggtga	catcacttac	agcgggagtg	atgggacagg
	tgcactgtgc	tcccagggat	ctggggagag	gctatatccc	tgggctttgg
cactgcagag	ctgtgtgtgt	ttgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt
19440 gtgtgtgttt 19500	gcgtgcgcgc	acatgtgtat	aagatctttt	tttattacat	gaagcaagat
aactgttgct	gtttcctttt	gggttttgtg	ttcaacagag	tggggtactt	cttccctcag
	tctccccttt	aaacacgtgc	tgtcagaggg	tgggtcttgg	gctcatgtct
19620 gtttgcacag 19680	ccgagtcaga	ggaaacacag	ggttcttcat	aaaaacactg	cacagcaggc
gactgtccag	agtcagcctg	caggacggca	gcagccctgc	ccctcagagc	acagctaggg
19740 tgggctgctt 19800	tgggatctcc	cgtcattccc	tcccagctgg	cagccggcgg	ccggcccatt
	ctggtcaggg	gggcgtgcgc	ctgctctgct	caccctggga	atgggacaga
	tcggagagga	cagggctgga	cccttgggtg	gcctctggct	ggaccatctc
	gacacagcct	ctcgggtcta	gtttcatttc	ctgaaaaaca	agtgcacaga
	gagtcgagag	ctacggcccc	cgggccagat	ccagccctgc	cacctgtttt
	tcaagctgag	tgggttttac	attttttaat	tacttgaaaa	aaaaaaagcc
	tcatgaccca	tgaaaattat	atggaattca	aaaaaaaaa	attatatgga
	cagtgtccat	aaataatttc	ttgagacagg	gtctcgctct	gtcacccagg
-	gtgctatggc	atggctcgct	gtacccttga	cctcccaggc	tcaagcgatc
	agcctcctga	gtagctggga	ctacgggtgt	gtgccaccaa	gcccggctaa
	attttagtaa	agacagggtc	tttctatgtt	gcccaggctt	ttctggaact
	ctcccaaagt	gctgggatta	caggctcgag	ccacggagcc	cagcctgttt
	actgataaag	ttttgccggg	tgtggtagtg	tgtgcctcta	gcgatttggg
	gggaggatcg	cttaagccca	ggagtttgag	gctgggctca	agtgatcagg
	tgatcatgtc	attgcattcc	agcctgggtg	acagagcaag	aacctatctc
	atatttaaaa	agtattgggt	gtggtggctc	acgcctgtgg	tcccagctac
	gaggtgggag	gatggcttga	gcccaggagt	ttgaggttgc	agcgagccaa

20760					
	ctacactcta	gcctgggtga	cagagcccag	accctgcctc	tttaaaaaaa
aaaaccaaaa 20880	aacatgtatt	ggaacacagc	catgcctgtt	cagtcacgtg	ctctccatgc
tgctttctgc 20940	tccagagacc	cttatggcct	gaaagctgaa	aatattttct	atcctttaca
aaaaagtttg 21000	ctgacctctg	tcctggaaaa	ttcatctccc	aagttctctt	ccggcactgg
cgttcctggg 21060	tgtcctaaat	ttggcccctg	ttatttctga	actctgtttt	ggctctgttc
cctcccagga 21120	gccaggacag	gcacgttctc	tgcatcttgt	cccctgacgc	ccagaggctt
ggctcggctc 21180	aggcattctt	ggaaatatct	ggctccagga	aaggcagagg	cctcctgagt
cggcccagag 21240	ggaacctgcc	ccaggtctgg	gggaggcctg	acccagcaga	gtggcttttg
ccgatgggtt 21300	gggccggtca	agatgtgctg	aaagttgtcc	tcagaaggcc	actttgggat
tccttcctcc 21360	agtattagag	caactgagag	ctgctcattg	caagcctgat	gttttcccag
ttggccgggt 21420	ccaccgggtg	ccctgggatt	ctgggatctg	ggtggaaagt	agggggcttg
ggggagtgtc 21480	ctgggttctg	gaatccaggt	ggcaagtggt	gaggttcagg	gagtggcttc
tgagccacca 21540	taggggtctc	tgtgggaggc	tctgcccatc	caggagattc	cgcaggccct
gccggcccag 21600	agccagcgtc	ttgcgcttgc	cgaggctaca	gccagcccca	gccgggtgga
acagcccgtc 21660	gcctcctctc	actttgtttt	ggggccacct	gggagtgtgg	agcaagggta
gagagggagg 21720	aagtggctgc	cggccgctgc	ccagcaccct	tgtttgcctt	gggccctctg
tgggctcctt 21780	tttattgctc	ttcaatgaag	ccagggaaat	ggacttcctt	gcctcacttc
agttcaacat 21840	gtctggaagt	ttggtattaa	aattaagaaa	gtgtggaaat	agagcaagaa
gagaaaaatc 21900	tctccaagag	ataatagtga	cctctgagct	gggcgcggtg	gctcacgcct
gtaaatccca 21960	gtactttggg	aggctgaggc	gggcagatca	cctgaggtcg	ggagtttgtg
accggcctga 22020	ccaagatgga	gaaaccccgt	ctctactaaa	aataaataaa	taaataaata
aataaataca 22080	aaattagcca	ggcatggtgg	cgcctgccta	taatcccagc	taaggcagga
22140			cagtgagcca		
agtctgggca 22200	acaagagtga	aactccgtct	caaaaaaat	aaataaataa	aaaataaaaa
tagtgacctc 22260	tggccaggtg	tggcagctca	tacccgtaat	cccagcactt	tggaaggaag
22320			agtttgagac		
22380			ttaagaggta		
cgaaacctgg 22440	attgctttct	ttttctaaat	gctgattctt	ttctttgtgg	tgtttgtgtt

ctgtgccgat 22500	gtccctcccc	cagccctgtt	attgtgagtg	gaagaagggg	aaagggttcg
cccgctactg 22560	tgagcccctc	ctctcacgct	gggtgtcctt	ggagaagcct	gcacttcttc
attgtacgcc 22620	agggctgggt	ccctccctgg	agtggttctg	tgctgctggg	atggggccaa
cccctcagat 22680	gttttctgag	tgtcacacac	aggtgtgtgc	attcatggcc	tttgcgtgtc
ttcctgttgt 22740	ggaggcaaaa	atgtgaagaa	ccctagatga	ttttgggacc	agggctccat
cacctgctgt 22800	tcattgcaca	ccggagcatc	caggcatggg	tggagagctc	agacttccag
gcacggtcgc 22860	aggggctggt	ctaaccatgt	tecegecege	ctgctcgtca	gaaccgcctg
ttgggagctg 22920	ttatcatgat	accatacctg	ggccctgggc	tatccgattc	tgacttaatt
gctccaggtt 22980	ggggccaggc	cgttgtttgc	tgttttgttg	tttcttctgt	gacgttagcc
actgggctaa 23040	tctgagcccc	tcagttacag	gtggagaaac	tgagacccat	gggggtgcaa
23100	aggacccaga				
tcccagagct 23160	tccagtcccc	ttcccgctct	cctaacagct	ttttttttg	agacaagatc
tcaccctgtc 23220	acccaggctg	gagtgcaatg	gcatgatctc	ggctcactgc	aatcttcgct
agctgcgttc 23280	cagcgattct	cctgcctcag	cctcccgagc	agctgggatt	acaggtgtgt
gccgccatgc 23340	ccagctcgtt	tttttttgta	cttttagtag	agatagggtt	tcaccatgtt
23400	atctcgaact				
gctaggatta 23460	caggctggga	tcacactgtg	cctggcccta	gcagctttgt	cctgtgccat
ccaacaacag 23520	atgaccgaag	tetttgttte	ttaacatgca	ttccatctgc	cttacagttt
23580	aaaacagagg				
23640	tgtggaagct				
agccggagaa 23700	cttggatgtt	gcacctaact	caaccttcct	gttaacatac	agttctgcag
gctcatggat 23760	catcagaacc	acgtcctatc	tcacgcggct	gtatgettee	gttggttcag
gtgtttttac 23820	cttgacagta	ttttctcctc	ggtggctttt	gcggtggttg	cttttaatca
23880	ttcaagaaaa	_			
23940	ctgcaggctc				
24000	ggaaatgagt				
24060	tgccccaggt				
24120	gccccaggtc				
ctctgtgtgg	tgggtgtgat	ctggagccct	ccgcccattg	ctgcacctgg	ggcaggcatt

24180					
	cccaggactc	cttcctgcgg	agcacgccct	ggttctccag	gcagccgctg
	tgcagtggtt	cgggagagga	cacctgcttg	cctggtctgt	tccaaatctt
	ccagcacagg	tagggggtgc	tatgggaaag	ggatcctcag	ttggccctgt
cactgctcta 24420	tcagctgggg	acgtggcatc	ctagtgaaaa	catcatggcc	gggcgcggtg
gctcacgcct 24480	ggaatcccag	cactttggga	ggctgaggag	ggtggatcac	ttgaggtcag
aagttcgaga 24540	ccagcctggt	caacatggtg	aaacccatct	ctactaaaaa	tacaaaaatt
24600	ggtggcgggt				
24660	ctgggaggtg				
24720	gagtgagacg				
24780	cgtcatttat	_			
24840	ggtgcaggtg				
24900	cccaggcagg				
24960	tctgccgtcc				
25020	aagctcccgc				
25080	cagcgccgca				
25140	cagetgeeeg				
25200	ggggggtccc				
25260	atgcctgggc				
25320	ggtgacagta				
25380	ttatggacta				
25440	gctgtgtgcc				
25500	agttccttgc	_			
25560	aagctcagga				
25620	cacgcatgtg				
25680	ttgtctggca				
25740	agcatccagg				
25800	ggggtcccac				
gatgaaggat 25860	gagaggacag	aggacgtgat	gerrgerger	geartgeetg	cagicciggg

tgagatgccc 25920	gggttgactc	tgctgcccgt	cgggtggatg	tgatgtcaga	teceeggett	
taaaatacga 25980	gggagctggg	aattgaggga	gcaggttggg	gcagaaagca	cagccccgtg	
gaagcctgga 26040	gctgaggcag	tgtgggcgac	ccctggagca	gtgagtgctt	ccttcatggc	
-	ccctgcagtc	ctcatgtagg	ggatgccatc	catgaattta	gttttcccag	
cctcctttaa	aaacgcgttc	atgctggggc	cggggcagtg	cagtggctca	catctgaaat	
cccaccactt	tgggaggccg	aggcgggtgg	atcatgaggt	caggagatcg	agaccatcct	
ggctaacaag	gtgaaacccc	gtctctacta	aaaatacaaa	aaattagccg	ggtgcggtgg	
cgggcgcctg	tagtcccagc	tactcgggag	gctgaggcag	gagaatggcg	tgaacccggg	
aagcggagct	tgcagtgagc	cgagattgcg	ccactgcagt	ccgcagtccg	gcctgggcga	
cagagcgaga	ctccgtctca	aaaaaaaaa	aaaaagtaca	aaaaaaaaa	aattagtctg	
ggtgtggtat	cacgcgccta	taatctcact	actcgagagg	ctgaggcgga	gaattgcttg	
aacccaggag	gtagaggttg	tagtgagccc	gtatcgtacc	actgccctcc	acctgggcaa	
tagagcgaga	ctctgtctca	aaaagaaaaa	aaaaaaaga	acatttatgc	caggtgtggt	
ggctcatgcc	tgaaatccca	gaactttgga	agactgaggc	aggaggatca	cttgagccca	
gaaatttgag	agtgtcttcc	ctgggcaaca	tagagagacc	tcatctctac	cagaaaaaaa	
aaaattagcc	cggcatggtg	gcatatccct	gtggtcccag	ctacttaggg	ggctgacgtg	
	ctgagtctgg	aggcagaggt	tgaagtgagc	tgagatcatg	ccactgcact	
ccagcctggg	tgacagacag	agaccctgtc	tcaaaaaaaa	aaaaaaaaa	aagcatttac	
	ggaaggtgag	actgacctgt	gagtgattgt	tcaaagaaca	aaaaataaac	
	agacaaaagg	gtgcctccat	gggggtg <b>t</b> ga	tttaaagctg	agaaattggg	
cttcttcccc 27120	ctccctctc	accccgtggt	ttgctaaagg	agatgggaaa	aaggattctt	
tttttggctg 27180	aaatatttaa	cactaaatta	aagccaattt	taacagcact	ttggttgatg	
agtgaaatta 27240	acagactggc	caaaaataaa	cgaacggtct	gtactatgtg	aaaaagaggc	
agctttggcc	atgctgggcc	aatgtgagtt	ttcagggttg	ctgggaatgt	ctgtgaatcg	
	ctagctggga	ctctcaggag	ccaaggccct	gaggggcaac	ttgcctggtc	
	ggcgttcact	gctttcttcc	tgggccagat	cacaggcccg	gaggctggac	
	gcactcttgc	cgagctgctc	cctgacttcc	tgaccatgct	cctttcagca	
	actttagttt	ccttgaatga	aaaatgggga	tgagaatagc	tectacetee	
	gagtgagttc	ggacaggtga	ctccctggga	ccagtgcctg	gcgcctgaca	
	25920 taaaatacga 25980 gaagcctgga 26040 cttcatcgca 26100 cctcctttaa 26160 cccaccactt 26220 ggctaacaag 26280 cgggcgcctg 26340 aagcggagat 26400 cagagcgaga 26460 ggtgtggtat 26520 aacccaggag 26580 tagagcgaga 26580 tagagcgaga 26700 gaaattgag 26700 gaaattgag 26760 aaaattagcc 26820 gcaggatcac 26880 ccagcctggg 26940 tatccaccat 27000 cctagagata 27060 cttcttccc 27120 tttttggctg 27180 agctttggcg 27300 gaggaaggc 27360 cctgcctga 27420 cactgggctg 27480 gccttgctgc 27540	25920           taaaatacga         gggagctggg           25980         gaagcctgga           gaagcctgga         gctgaggcag           26040         ccctgcagtc           26100         ccctcttaa         aaacgcgttc           26160         cccaccactt         tgggaggccg           26220         gtgaaacccc         26280           cgggcgcctg         tagtcccagc           26340         aagcggagc         ctcgtctca           26400         cagagtgagc         ctcgtctca           26520         aacccaggag         gtagaggttg           26520         aacccaggag         gtagaggttg           26520         accgcgccta         26520           aacccaggag         gtagaggttg         26580           tagagcgaga         ctctgtctca           26640         ggctcatgc         tgaaatccca           26700         gaaattggc         ctgagtctgg           26820         gcaggatcac         ctgagtctgg           26880         ccgcatggtg         26880           ccagcctggg         tgacagacag           26940         tatccaccat         ggaaggtgag           tatttggc         aaatattaa           27000         ccagagata	25920         taaaatacga         gggagctggg         aattgaggga           25980         gaagcctgga         gctgaggcag         tgtgggcgac           26040         ctcatcgagt         ctcatgtagg           26100         ccctctttaa         aaacgcgttc         atgctggggc           26100         cccaccactt         tgggaggccg         aggcgggtgg           26220         ggctaacaag         gtgaaacccc         gtctctacta           26280         gggcgcctg         tagtcccagc         tactcgggag           26340         aaggggagc         cgagattggc           aaggggagca         tegcagtgagc         cgagattgg           26400         cagagcgaga         ctccgtctca         aaaaaaaaaa           26400         cagagtgtgac         taatctcact           26520         aacccaggag         gtagaggttg         tagtgagccc           aacccaggag         ctctgtctca         aaaagaaaaa           26640         ggcttctca         gaactttgg           ggcatatttgg         gcatatccct           26700         gaaatttgg         gcatatcct           26820         ggaggtetgg         ggcagaggt           26820         ggagggtgg         aggcagggtg           26830         cgggcatggg         agg	25920         taaaatacga         gggagctggg         aattgaggga         gcaggttggg           25980         gaagctgga         tgtgggegac         ccctggagca           26040         ctctcategca         ccctgagtc         ctcatgtagg         ggatgcatc           26100         ccccaccact         tgggaggccg         aggggggtgg         cggggcagtg           26160         cccaccactt         tgggaggccg         aggcgggtgg         atcatgaggt           26220         ggctaacaag         gtgaaacccc         gtctcatacta         aaaatacaaa           26280         cgggggcgctg         tagtcccagc         tactcgggag         gctgaggcag           26340         aagggggag         ccactgagt         cactgagggag         gctgaggcag           26400         aagaggaga         ctccgtctca         aaaaaaaaa         aaaaaggaga           26400         gagggggtg         gtatcgagg         gtatcgagg           26520         aaccaggagg         tagtgaggtg         gtatcgagg           26520         aaccaggag         dtatcgtacc         gtatcgagg           26640         gaattcca         gaacttagg         agactgagg           26700         gaaattaga         gagcagatt         tgaaggagg           26880         ccagcctggg	25920         taaaatacga         gggagctgg         aattgaggaa         gcaggttggg         gcagaaagca           25980         gaagcctgga         gctgaggcag         tgtgaggcag         ccctggagca         gtgagtgtt           26040         ccctactacgca         ccctagtagg         ggatgccatc         catgaattta           26100         ccctctttaa         aaacgegttc         atgetggggc         cggggcagtg         catgaattta           26100         cccaccactt         tgggaggcg         aggcggtgg         gtcataggt         caggagatcg           26220         ggctaacaca         gtgaaacccc         gtctctacta         aaaatacaaa         aattaggg           26220         ggcggacgctg         tagtcccagc         tactcgggag         gctgaggcag         gagaatggc           26220         gggacgagact         tagtcccagc         tactcgggag         gctgaggcag         gagaatggc           26340         aagggaggac         tccgtctca         aaaaaaaaa         aaaaaggaga         ctgaggcgga         ccgcagtccg           26440         aggagtggg         gtaagagtgg         gatgtgggga         ctgaggcaga         ctgaggcgga         ctgaggcggg         actgaggcgg         ctgaggcggg         ctgaggcggag         ctgaggcggg         cattgaggcg         cattgaggcg         cattgaggcg         cattg	taaaatacaga ggagcttggg aattgaggga gcaggattggg gcagaaagca cagccccgtg 25980 gaagccttgga gctgaggcag tgtggggcac ccctgaggca gtgagtgctt ccttcattggc 26040 cttcattgcac ccctgcagtc ctcatgtagg ggatgccatc catgaattta gttttcccag 26100 cccaccactt tgggaggccg aggeggggg cgggggagtg cagtgggctca catctgaaat 26160 cccaccactt tgggaggccg aggeggggg atcatgaggt cagtgggctca catctgaaat 26120 ggctaacaag gtgaaacccc gtctctacta aaaatacaaa aaattagccg ggtgggggggggg

27600					
	agagecegea	ctgctgttac	tgataccctt	ggctgtacca	ggggagaact
tggttgccat 27720	tgccaggtgt	tctcccacca	ccccactac	tgtccctgtt	tgatgtgtgg
cgggaataaa 27780	gctgtgcaca	ttggagcttt	tggcacatcc	tggctttcag	gtgaaaggtg
cgtgtgtgtt 27840	tgagggttta	gcctggccaa	cccagccatg	aggtcggacc	tgacctgggg
gtgagtcctg 27900	agctcggcac	ccctgagctg	tgtggctcac	ggcagcattc	attgtgtggc
ttgggccgca 27960	ccctttccc	tgctgggctg	ttgatgttta	gactggagcc	tctgtgttcg
cttccaggaa 28020	ccaacccgtg	tgcggacagg	aacggggggt	gcagccacct	gtgcttctgc
acaccccacg 28080	caacccggtg	tggctgcccc	atcggcctgg	agctgctgag	tgacatgaag
acctgcatcg 28140	tgcctgaggc	cttcttggtc	ttcaccagca	gagccgccat	ccacaggatc
tccctcgaga 28200	ccaataacaa	cgacgtggcc	atcccgctca	cgggcgtcaa	ggaggcctca
gccctggact 28260	ttgatgtgtc	caacaaccac	atctactgga	cagacgtcag	cctgaaggta
gcgtgggcca 28320	gaacgtgcac	acaggcagcc	tttatgggaa	aaccttgcct	ctgttcctgc
ctcaaaggct 28380	tcagacactt	ttcttaaagc	actatcgtat	ttattgtaac	gcagttcaag
ctaatcaaat 28440	atgagcaagc	ctatttaaaa	aaaaaaaaga	tgattataat	gagcaagtcc
ggtagacaca 28500	cataagggct	tttgtgaaat	gcttgtgtga	atgtgaaata	tttgttgtcc
gttgagcttg 28560	acttcagaca	ccccacccac	tcccttgtcg	gtgcccgttt	gctcagcaga
ctctttcttc 28620	atttatagtg	caaatgtaaa	catccaggac	aaatacagga	agacttttt
ttttttttt 28680	tgagacagag	tcttactctg	ttgcccaggc	tggagtaccg	tagcgtgagc
tcagctcact 28740	gcaacctccg	cctcccaggt	tcaagcgatt	cttctgcctc	agcctcctga
gtagctggga 28800	ctacagacat	gcaccaccac	acccagctaa	tttttttat	atttttagta
gagacagggt 28860	ttcatcatgt	tggccaggct	ggtcttgaac	tcctgacctc	aggggaacag
acggggttgg 28920	cctcccaaag	ggcggaaata	acaggggtga	gccaccgttc	ccggcctagg
aaaacttttt 28980	gccttctaaa	gaagagttta	gcaaactagt	ctgtgggctg	gccttctgat
tctgtaaaga 29040	aagtttgatt	ggtggctggg	tgcggtggct	cacacctgta	atcccagcac
tttgggaggc 29100	cgaggtgggc	agatcacctg	aggtcgggag	ttcgagacca	gcctcaccaa
cgtggagaaa 29160	ccccgtctct	actaaaaata	caaaaaaaaa	attaaccggg	catggcggcg
cctgcctgta 29220	atcgcagcta	ctcaggaggc	tgaagcagga	gaattgcttg	aacctgggag
gcggaggttg 29280	tggtgagctg	agatggcacc	attgcactcc	agcctgggca	acaaaagtga

aactccgtct 29340	cagaaaaaaa	aaagtttgat	tggtgtaacc	aaagcgcatt	tgtttatgga
	cagcttttgt	tctgccgaga	tgagttgtga	cagatctgta	tgggctctaa
	atgtgccatc	cgccccttta	cagaaaaagt	gtgctgacct	ctgttctaaa
gtattggaca	actacaatgt	ttgctcattt	attattctat	gatttgtttt	ctgctttttg
	tgttgttgag	atagggtttc	cctctgtcac	tcaggctgga	gtgcagtggt
29580 gtaatttcag 29640	ctcactgcag	cctcgacctc	ctgggctcta	gtgatcctct	catctcagcc
tccctagtag	ctgggactac	aggcacacac	caccactcct	ggctgatttt	tttttttt
	gtggagacag	ggtttccgca	tgttgcccag	gctggtttca	aactcctagg
	cacctcagcc	tcccaaagtg	ctgggattac	aggcgtgagc	caccatgccc
_	actgtttgta	ttacatagct	ttaaaagatt	ttttatgact	ttaagtcaca
29880 agggttcttt 29940	gtagaaaaaa	atatatatat	aggaaagtat	aaaaagaaag	taaaaattgt
ccataacctc	tccagccaga	gacgaccgtt	gctgacacct	cagcatattg	cctttaagtc
	aagatagcat	ttctcttcat	cacagtcata	tgctacgcag	aattctgtat
	tcacttgaca	ttacaacagg	tatttgatgg	cgctgtgaca	aactctttgg
	taaatgtatg	aaatactcca	ctgcacagat	gtttgctttt	aggcttaact
	tttgcgtgtg	ctggttacag	ccgggcacag	tggctcatgc	ctgtaatcac
	gagggtgagg	caggaggatc	acttgagccc	agaagtttga	gaccggcctg
30300 ggcaacatag 30360	tgagacccca	tctctacaaa	aaacttttt	aataagtcgg	gcgtagtggt
	agtcccagcc	accaaggagg	ctgagttggg	aggattgctt	gagccccagg
	tgcagtgacc	tgagattact	ccactgtact	ccaacctgag	cgacagagca
	ggggaaaaaa	aaaaaaaaa	tatatata	tatatatata	tatatacata
	cgcacacaca	cataatataa	aaatatatat	ttataaatat	ataatatata
	atatatttat	aaataaaatt	tataaattat	atttataagt	aaatatataa
	aaaaatatat	attatataat	atataataaa	atatataata	taaaaatata
	taatatataa	tacatactta	taagtatata	tttaaaatat	atgtaatgta
<b>+</b>	tgtatgatat	ataatataca	tttataaata	cacatttata	ttattttata
	ataaaatctc	caagttgctt	tttccaaaaa	ggtgtcttgc	tgcatttcaa
	aaaaacttga	atgctggtga	tctggtccag	aatgtgttca	gtagctgctg
	agcatctcgg	gagatgtcta	caaaacacgc	tggttctggc	ctggcgtggt

31020 ggctcacgcc 31080	tgtaatctca	gcactttggg	aggctgaggc	aggtggatca	actgaggtct
	accagccttg	ccagcttggt	gaaaccccat	ctctactaat	aatacaaaaa
	gcgtggtggc	atgtgcctgt	aatcccacct	acttgggagg	ctaaggctgg
	gaacccaggg	ggcagaggtt	gcagtgagcc	gagatcgcac	cattgcactc
caggctgggc 31320	aagaagagcg	aaactccgtc	tcaaaaaaaa	aaaaaaagat	gctggttcct
aaaatgtggc 31380	ccttttcctc	ctcacctgct	gccagaccat	cagccgcgcc	ttcatgaacg
ggagctcggt 31440	ggagcacgtg	gtggagtttg	gccttgacta	ccccgagggc	atggccgttg
actggatggg 31500	caagaacctc	tactgggccg	acactgggac	caacagaatc	gaagtggcgc
ggctggacgg 31560	gcagttccgg	caagtcctcg	tgtggaggga	cttggacaac	ccgaggtcgc
tggccctgga 31620	teccaccaag	gggtaagtgt	ttgcctgtcc	cgtgcgtcct	tgtgttcacc
tcgtatgaga 31680	cagtgcgggg	gtgccaactg	ggcaaggtgg	caggctgtcc	gtgtggccct
cagtgattag 31740	agctgtactg	atgtcattag	ccttgatggt	ggccaggact	ggtagggccc
tcagaggtca 31800	tggagttcct	tcgtggagcg	ggtgctgagg	ctgtatcagg	cacagtgctg
gctgctttca 31860	cctgggccgt	ctcaccgaag	tgtccatgga	gcctgcgtag	ggtgggtatc
tgtgtcgatt 31920	ttacagatgc	agaaacaggc	tcagagaaac	cgagtgactt	ccctaaggtc
acatacccag 31980	ttagagcaga	gctgggccag	gaagtgctgt	ctcaggctcc	tgaccaggtc
tccttgcttt 32040	gcactcttgc	caaaaccatg	atccagaact	gactttgagg	tccccggacc
tcaggctcct 32100	ccgaaatggc	ctcttggagg	ctgctgagcc	acagcttagg	acccacctcg
agaggcaaat 32160	gtgctttgag	ctgccaggcg	tcctgggggc	cctgccttgg	gcacggggtt
cagacaggcc 32220	ccagatgtgt	ggggcgtctt	tctggacttg	agttttcttt	tctgtgtggt
ggacacagtg 32280	ctcacccctt	aaagcacctg	tgatgtgtgc	agcagcccaa	tccctgcctg
tcgcctgttc 32340	tgctagggaa	ggaaggaata	cttcaggatg	gcaggacaac	agaaagaggt
ccaggtttta 32400	gagcaagggc	aggtcaaact	tagaaaattc	tggaatgagg	atgtgcattt
32460	atctgctaaa				
32520	atccggatcc				
32580	atcctggttt				
32640	actcaccctg				
caccttacga 32700	gtgagccact	gtgggaattc	agggaggtgg	cgcagtgacc	acccctggag

ggatatgtgt 32760	gtggcagggg	tcgagggtct	cgcccttccc	tgcttcctgc	gcgtggcttt	
ctccaggacg 32820	gggagggctg	agctgaagag	gtggggacag	ttgcgtcccc	ccgccaccca	
ctgtcctgcg 32880	gtgagagcag	actcactgag	cctgcccttc	tcccttgtgc	cttccagcta	
catctactgg 32940	accgagtggg	gcggcaagcc	gaggatcgtg	cgggccttca	tggacgggac	
caactgcatg 33000	acgctggtgg	acaaggtggg	ccgggccaac	gacctcacca	ttgactacgc	
tgaccagcgc 33060	ctctactgga	ccgacctgga	caccaacatg	atcgagtcgt	ccaacatgct	
gggtgagggc 33120	cgggctgggg	ccttctggtc	atggagggcg	gggcagccgg	gcgttggcca	
cctcccagcc 33180	tcgccgcacg	taccctgtgg	cctgcaagtt	ccccaacctg	gcaggagctg	
tggccacacc 33240	cacgactgcc	cagcagcctc	accetetget	gtgggagttg	tccccgtcca	
cccctgggtg 33300	cctttgctgc	agttatgtcg	ggagaggctc	tggtgacagc	tgtttcctgt	
gcacctgctg 33360	ggcactaggt	cccagctaat	ccctgtgcca	ggactctaat	ttcaccctaa	
cacacatggt 33420	ggttttcatt	gctggggaag	ctgaggcctg	agcacatgac	ttgccttagg	
tcacatagct 33480	ggtgagttca	ggatccccca	gagataccag	ggccagcact	cgatccccac	
ccagccctga 33540	accccaccat	gtgctgggat	tgtgctggga	gtgtccacac	gcctgggacc	
ccagggctgg 33600	tgctctcatc	tcctttttcc	agatcatgag	aatgaggctc	agggaagttt	
gaaaaaaacc 33660	tatcccaagt	cacacagcaa	caggagcagg	atttgaaccc	agaaaagggg	
accgcacact 33720	ctgttctgct	agagtagtta	gctgtcctgg	gtgatatggc	aggtgacagg	
ggcaactgtg 33780	cttaacaaag	gaacccccat	ccccctgcc	aagttgggag	actagaaggt	
caggggcaga 33840	agctctgaag	ggccaggtgc	agtggctgac	acctctaatc	ccagcacttt	
gtgaggccaa 33900	ggcgggcaga	tgatttgagc	ccaggagttc	aagatcagcc	tgggtaatgt	
33960	catctctaca					
34020	aagctacttg					
34080	gagctgtgat					
34140	aaaaaaaga					
34200	gagggcagac					
34260	gggaccttca					
34320	ctcaggaagg					
34380	ctgggtgtgg					
agctgaatgc	cttgtcccag	gtactgcgta	ggcagagctg	gcagttgaac	cccgtgtcct	

24440					
34440 ggttgtcgct 34500	gggggtgggc	tgcaccctga	cttgtgaggc	cagtagcaag	gtttgcacgt
	ccgtcaccca	gctctgcagc	acatcccgtg	acccagctca	tccaggccgc
	gttgccaggc	gagaaaccag	tcaccgcaca	gctgtggttg	cctgaaatga
	taatcacccc	ggagtgagga	cagactcaga	tgaaaaccag	caaaagccct
ggaaactcat 34740	gtgaccctgc	caatgagggc	ggccatgtgc	attgcagcct	ggccgtcact
cctcggtacg 34800	tgttttggac	ttaaacgctc	cggatgttta	ctgagtgctt	gattaataac
34860	tggtctcatt				
34920	acctggagtc				
34980	gtagccaggt				
35040	tccaaggtgg				
35100	tggctcaccc				
ctgacaccgt 35160	gcccgtgtgt	gttcatgcag	gtcaggagcg	ggtcgtgatt	gccgacgatc
35220	gttcggtctg				
35280	tgagcgggcc				
acctggactt 35340	cgtgatggac	atcctggtgt	tccactcctc	ccgccaggat	ggcctcaatg
35400	caacaacggg				
35460	cgcctcacac				
35520	cccccgcacc				
ctgaaaggag 35580	cttctcatct	ggggttcctg	ggtgtacata	gatggttggg	taggttgtgc
35640	ctgcatgatg				
35700	catagataaa				
35760	aaaccagtca				
35820	atagcgctcg				
35880	acaaggaacc				
35940	ggttgagccg				
36000	caggcagcct				
36060	ctttgttctc				
ggagtacagg 36120	tgtttcctgt	tggcgggctc	ttcccccatg	acatcagcag	cgagetggtt

atgattccct 36180	acgcagaact	tgatagttta	taaagctctt	tgtcatccag	gccccgttgg
	agacctggtc	gcaggcgggg	ctggtcttgc	ctgtcccagc	tgcatggatg
	ggcttgcaaa	ggttaagggg	ctgttcgagg	cccacgctgg	caggagatgg
	gagtctggga	cttcccatgc	ctgggctgtc	tttggtcctg	ttgctcacca
	gggccatgac	cttagagagc	caaatggagg	tgcaggtaac	ccacggcaag
	catgactcag	agtccccgtc	ctgtggccgg	cagtacctgg	tgcaacgact
	accagccact	gtagcccgct	gacggtgcgc	tcgaagtgcc	acagcttctg
	ggactcaggc	caggagactc	tgttagctgt	tgagagggag	aggccaacgg
atgttctggt	tctgctagag	agctggttct	tcggatcctg	gtaccagtgc	actgagagga
36660 ggcccagctt 36720	gattctgggg	ctgccttgtg	gtggcatgtg	ctgctcactg	acaccctcga
	ctctcgggct	tgttgactgt	gcccggtttt	ccgcagttca	ctggtgcaca
cataggcaca	tagcaaaccg	cacacacagt	cgtgggtatg	agtttcacta	cattccacca
36840 ccagtgttca 36900	ctaccattac	ctgccttccg	tcttaagtgt	tcatcattta	aaaataaatt
	gacgcggtgg	ctcatgactg	ttatcccagc	actttgggag	gctgaggcgg
	tgaggtcagg	agttcaagac	cagcctggcc	aatatggtga	aactccatct
	tacaaaatta	gctgggcatg	gtggggcatg	cctataatcc	cagctactca
	gcaggagaat	ggcgtgaacc	cgagaggcag	agcttacagt	gagcccagat
	cagtccagcg	tgggcaacag	tgcgagactc	catctcaaaa	aaaaaataaa
	aaaaataaat	ttatgatcta	tttcaaaaat	aacacatgta	ctttgaaaca
	atatgacacg	gagaatgaaa	ttccccatag	cgcaccccca	agagacagcc
	cgtctttccc	gtggacctcc	agcggggcag	atgctgagcc	gcctgttgtc
	ctatcccgtc	ctccagctcc	tctgtggctt	acagacaccc	acctgcagcc
	ctcctctagc	gcccaccacc	ttcttgctgt	tcagccagaa	atctgccatc
	tcccggacga	ccagcacagc	ccggatctca	tcctgcccct	gcatggactg
	aagccatcga	ctatgaccca	ctggacaagt	tcatctactg	ggtggatggg
	tcaagcgagc	caaggacgac	gggacccagg	caggtgccct	gtgggaaggg
	gcttcccaag	gegeteetet	tgctggtttc	caggctgctg	cccctgtcct
	aggaaacaga	ggatggctct	gggtgaatga	tgacttgggc	ttcgattatg
	gtatgaccct	gagatgcgtg	gaaccccgag	actgtgatta	tatgtagaaa

37860					
	ccgttgttta	agtagtcatg	gtggggtcag	accccacagg	acttttgtct
tttcaagaaa 37980	gaaaatggtc	gtgtgtcatg	caggggtagt	tggtactggt	taatccaggt
	ttttgtggga	actgtacagt	catttctgct	acaatgctgt	atatgctctt
	cctatgcaaa	atcgcacagt	aaaaatgaca	caactcatag	ggaaagcggg
gccagggcac 38160	agccctcaaa	atctccatca	atgacatgta	agaaaagaga	ggaacctggg
aaatagcaaa 38220	gtgccttttg	cacattaaat	ggttagctat	atcccacaat	actgtgcatt
cgtaaacgtt 38280	aatgctgcaa	taaatacggc	acttcacctt	gggaagatct	ggagttggct
tatgagtgtg 38340	gaagggtgta	gcgcatgagt	ttttgtgaaa	cactggaagg	aggattgtgg
gaaatcaaat 38400	ggaaagttct	caccccaggc	gtggagaaga	gtgggtcatg	gccccagcag
tgagcccagg 38460	gaggtcagag	acggaggtgt	gtgtgtgggt	gtgaccctgc	gcagttccct
gccggctgta 38520	gttttttgca	ttcgcttaat	gtttctcgtg	gaggaaattg	tgcatgagca
aatgtgaaac 38580	cgtgctgtgc	tcaaattgtc	ctaatacatc	attgcattgg	aacagattgg
ctttnttttt 38640	tttttttt	tttttttt	tttgaaatgg	agtctcactc	tgtcaccagc
ctggagtgca 38700	gtggcatgat	cttggctcac	tgcaaccttt	gcctcctatg	ttcaagtgat
tttcctgcct 38760	cagcctcctg	agtaactggg	attacagggc	atgagccacc	gcggccggcc
agatttgcat 38820	ttttgaaaca	actgctaggc	tgggcgcggt	ggctcacacc	tgtaatccca
gcactgtggg 38880	aggccgaggc	aggtggatca	cctgaggtca	ggggttcgag	accagcctgg
ccaacatggt 38940	gaaaccccgt	ctctactgaa	tatacaaaaa	tcagctgggt	gtggtggcgg
gtgcctgtaa 39000	tcccagctac	tcaggaggct	gaggcaggag	aattgcttga	acccaggagg
cagaggttgc 39060	ggtgagccga	gatcacacca	ttgcactcca	gcctgggcaa	caagagcaaa
actccatctc 39120	aaaaaataaa	aaatagaaaa	acaagtgctg	tagcggaagt	gagcactttg
cggagtcagg 39180	cttgtgtggc	ctgttccaca	aatgatgtgc	tcacggtggc	ctcaggccca
cctggagtct 39240	gcagcatggg	gcacaacagg	ttcattagtg	tagaattcca	ggacaggcct
ggctcctaag 39300	cagccttctt	ttacaaaaac	tgcagagccc	gcctgtatcg	tagcactttg
ggaggccgaa 39360	gtgggtggat	cacgaggtca	ggagttcaag	accagcctgg	ccaacatggt
gaaaccccat 39420	ctctactaaa	tatacgaaaa	ttagctgggt	gtggtggcac	gcgcctgtag
tcccagctac 39480	tcgggaggct	gaggcagaat	tgcttgaacc	tgggaggtgg	aggttgcagg
gatctgagac 39540	catgtcattg	cactccagcc	tgggcaacag	agcgagacgc	catctcaaaa

aaaaaaaacc 39600	tacagagcca	cacggcctct	ttctccaccg	agtgttggtg	tgggagcttg	
•	gtgaaatctt	ggtactttct	tgaggcagag	agaggctgag	cgcctggaga	
	tgggtcgcca	tgtccgccgt	cggtttcgct	gttgtgctcc	ccatctgaag	
gctggtgccg 39780	tccagacagg	ctggacgccc	ctttccacca	gatccttcct	cccgcagcag	
tttctagtta 39840	cgttgtactg	tgaggtctgt	gtccttggtt	gatggcaaaa	gtcagccgaa	
ttgaaattca 39900	gagccatgcc	tggctccctg	gagcttctct	cctgggcagc	tgtgatcatt	
gcctctgctg 39960	tggtgtgggt	ggtggaaatg	gattcctttc	atcttgcttg	ctacaggtga	
ctgtcacgtg 40020	gagtcctttg	gagagagga	cgtgttaatt	gatggatgtg	gctcccatgc	
tgagaaagct 40080	cctgggcgta	cattgcctta	gagtttcatt	ggagctgcgt	tcttttatgg	
tgtctgctag 40140	gcagaagtga	tgaagacttg	gaagaaaacc	cagaaggttt	tccacttaat	
ttggaaaatg 40200	tgcttttccc	ctcctgtgtc	ttttgctaag	gtccagcctc	ctgcagcctc	
40260	ggactctggc					
40320	attatcatcc					
40380	taaatttata					
40440	agggtctcac					
40500	tcagcctcca					
40560	gcatacacta					
40620	tgttgcccag					
40680	agtgctggga					
40740	ttgagatgga					
40800	tgcaacctct					
40860	gggattacag					
40920	gtttcaccat					
40980	cctcccaaaa					
41040	agacagggtc					
41100	agcctccgcc					
41160	agagacagat					
41220	acctcagcct					
gcccatttta	cctattctgc	agttgacagt	tcagtggcat	tcagtcagtt	cacgaggtaa	

41000					
_	cattcatctc	cagactactt	caccttctcg	gcagatgtcc	gaaactgtcc
_	cactcctcat	ctccctctga	cagccaccat	tctactttgt	atctctctct
	ggtacctcat	gtaagtggaa	ttataccaat	atttgccctt	gtgtgactgg
41460 cttctttcat 41520	gtgacatggt	gtcctcaagg	ttcatctgtg	ttatagcctg	tgtcagaatt
	aagcctgaat	aataacccgt	tgtaaaggct	gggcgcggtg	gctcacaccc
	gcattttggg	agtccgaggt	gggcagatca	cttgaggtca	ggagtttgag
	ccaacatagt	gaaaccctgg	ctctactaaa	agtacaaaat	tagctgggtg
	cacctgtaat	cccagttact	caggaggctg	aggcaggaga	atcgcttgta
	agaggttgca	atgaaccaag	attgtgcctc	tgcagtccag	cctgggtaac
	ttcctgtctc	aaaaaaaaa	aaaatcatcg	gatggatgga	cggaccactt
	atccatccac	gggtgctagg	tttcttccac	ctttggttgt	cgtgaataag
gccactatga 42000	acatttcctt	ccgtggtgaa	ggttttgtac	tagtgaggaa	aaggcgtgtt
tgtggtgttg 42060	cataggattc	tggtaagaaa	gtttgcacta	accataagta	tttgtactac
attaaaatga 42120	aagctcaggg	geegggegeg	gtggctcacg	cctgtaatcc	cagcactttg
ggaggccagg 42180	gcgggcggat	catgaggtca	ggagatcaag	accatcctgg	ccaacatggt
gaaaccccgt 42240	ctctactaaa	aataccaaaa	aactagccag	gtgtggtggc	gggcacctgt
agtcccagct 42300	acttgggagg	ctgaggcagg	agaatggcgt	gaacccggga	ggcggagctt
gcggtgagcc 42360	gagatcgctt	cactgcactc	gagcctgggc	aacagagcaa	gactccgtct
cacgcaaaac 42420	tctgtctcac	gcaagactcc	gtctcaaaaa	aaaaaagagt	tcagggttta
tgaaactggc 42480	cagccgcgta	aagtttgctg	tgttgttttt	gtgcccggga	ggagtgtggc
cagggtgtca 42540	cgtcacacag	tacacgtttc	tcagatggtg	gttctccaga	ctgctgtccc
42600	tttgcatctg				
42660	tggaatcttg				
42720	cttttaggaa				
42780	tgtagtgatg				
42840	tgatgatgtc				
42900	gtgtgtgtgg				
ccctttccat 42960	ctgggggtgt	gtgtgtgtgg	ggtgtgtgtg	tgtgtgtgcg	cgtgtgtgtg

gtgtgtggtg 43020	tgtgtgtgtg	tatgggggag	gcaccctttc	catctgggtc	caagagactg
	agacgcttct	ttttatctac	ttagagactt	tgttttattt	gtatttttt
	ctcactctgt	cacccaggct	ggggtatggt	gatatgagca	tagctcactg
	ctcccaggct	gaagcgatcc	tcccacctca	gccttctgaa	tagctgggac
	cgtcaccata	ctgagctatt	gtttttttg	tttggttggt	ttaattttt
	tggagtcttg	ctatgttgcc	cagactagtc	tcaaactcct	gaactcaagt
	cctcagtttc	ccgacattct	gggatcacag	gtgtgagcca	ctgctgtctc
	taactgctga	aagacctaga	taaagaaagt	ctgaaaagac	ttactatcag
	taagatgatt	ccctctgact	caatggagag	ggaggggagc	ttttccttca
	gcaggagccc	aggtgctcca	ggccccattt	gccccaggcc	aaatcactcg
	tgcagctgtc	tttcagggta	acccaaagga	accagatccc	cgcaggcagt
	gctgtcctct	cctcctacgt	cagctcagta	agagcccttc	gaagggatgc
	gccccaaaag	cccaggctca	tccctgagat	gcacagggtg	ggctgggctt
	cgagcatctc	ctggacggtg	accccagaga	gtgtggagac	ggagagtcct
	tgagagacgt	ggctgccctg	ccttcccaag	aggggctctg	agtcattccc
cacactcacc 43920	tgcccctacc	caccctcacc	tggcccccag	cctcacctac	ccccacatct
	ctttacccgc	accttcccta	cccaccctca	cctcccctgt	accttcacct
ccccactca 44040	cccgcccctg	caccctcacc	tgtcccccac	cttcacctaa	ccccaccct
cacctgccct 44100	cccctcacct	ggcctccttc	cgttggggaa	ggggttgtaa	ggggcggccc
ccaaactgtc 44160	tgtcctggtg	ccctgcagag	aaaacagtac	gtgagggccg	cagtccaaaa
gcttgagtcc 44220	tggaaggtgg	aggagacagg	gatgtgttgg	gaagggcccc	atggtcttgg
atcccttctc 44280	gactgtcaat	ggggccttca	tgggagcgcc	agtctagtga	tgcacagctg
ggtgcccggc 44340	gggtggctga	ggaggcctaa	agtccgaggc	ggcaagagct	cttccagagg
	aatcgctctg	gcatactcag	gcgggcacgt	agttaggagc	tgattggaga
ggagagaccc 44460	ccacaccaat	actgggattt	gactttcagg	ctaaacttga	gaagtgtggc
	ctgccagagc	tctccagcca	gtgcccaggg	ctctccagcc	agtgcccggg
	agtgcccggg	ggtctccgcc	agtgccaggg	gtctccgcca	gtgcccaggg
gtctccgcca 44640	gtgctcagga	gtcttggttt	ctttgtctta	cagccctttg	ttttgacctc
	ggccaaaacc	cagacaggca	gccccacgac	ctcagcatcg	acatctacag

44700					
	ttctggacgt	gcgaggccac	caataccatc	aacgtccaca	ggctgagcgg
	ggggtggtgc	tgcgtgggga	ccgcgacaag	cccagggcca	tegtegteaa
cgcggagcga 44880	gggtaggagg	ccaacgggtg	ggtgggggtg	ctgcccgtcc	aggcgtgccc
gccgtgtctt 44940	ctgccgaatg	ccagcctctc	acaggctggg	gagactttcc	accctgggga
tccaatgggt 45000	ggctttccag	ggtcccaaaa	gcaaacacag	gctctttcac	agcccctcca
45060				ctctgctgag	
45120				atcatccttg	
accctgtgca 45180	gaaatccctt	ccacggcatg	ggggctgcct	gttgactcgc	tcctgttcca
45240				gacgctccca	
45300				aggtctccag	
45360				caggetecaa	
45420				agctgggggg	
45480				cagagattga	
45540				cctcttggag	
45600	ggagtgacgg	ccacagiggi	geggeetetg	cagcacacgg	ggggereggr
45660				cageegaget	
45720				gcacctgttt	
45780				gacacttgtt	
45840				cctgcgccct	
tgagggaacc 45900	tttgggcttc	tggtggctcc	aggcacccct	tgacttgtgg	tcctgtcact
45960				gtaccattga	
46020				cttgatcctt	
46080	_			ctggggtgag	
46140				ctcgggcagc	
46200				gctgtccgag	
46260				ctgtacttca	
46320				accgagcgcg	
caccaccggc 46380	ctcatccgcc	ctgtggccct	ggtggtggac	aacacactgg	gcaagctgtt

ctgggtggac 46440	gcggacctga	agcgcattga	gagctgtgac	ctgtcaggta	cgcgccccgg	
	aaccgcagac	acccggcctt	cattgtcagt	aatggcagca	gctgccacat	
	ctgccgtgag	cccagtgccg	cgccaggggc	tttgtgtgta	gcgtgttttg	
	gacagctgta	ggctggggtt	ctgagtgagc	cccacagggc	agaggcagaa	
	agagagggtg	agcgagctgc	ttggggcccc	acagcaggag	atggagcagg	
	agcctctgcc	cccagcacct	gcgcaagaag	ctgctctgct	ctggactgtg	
	agggctggag	agaaatgaga	gttggtgctt	agagagggg	cgcaggtccc	
	cctcttatga	tgaggtagat	gggtgaaggg	aggggccatg	cttgcagggg	
ccagtgaccg 46920	aggcccgccg	ttggaactga	tggccttcat	cccgagccca	gcccaggtgg	
gagcagggct 46980	ttccgagggc	ttgtcttggg	teggeetget	tccagggact	ctgctgcagc	
tcccacccct 47040	gtccaaagca	tggaatcccc	caggeteect	ggcagtcctg	tcaacctctg	
tcctcccaag 47100	ctgagtgtgg	ggcaagttct	ggaggtcagc	actgctcagg	ggggcccacg	
ggctgcttgc 47160	aggggccaac	cgcctgaccc	tggaggacgc	caacatcgtg	cagcctctgg	
gcctgaccat 47220	ccttggcaag	catctctact	ggatcgaccg	ccagcagcag	atgatcgagc	
gtgtggagaa 47280	gaccaccggg	gacaagcgga	ctcgcatcca	gggccgtgtc	gcccacctca	
ctggcatcca 47340	tgcagtggag	gaagtcagcc	tggaggagtt	ctgtacgtgg	gggctggcag	
tggggtgggc 47400	agggtggcct	ctaaacccga	cccctggagg	aggctggagg	ccagtgcaag	
atcctgtgtg 47460	gcctcagcca	ggcggtggtc	tctgccagat	gccaactgtt	gcccgctggg	
47520		gtcccgaggc				
aaatcaccac 47580	gaacagcgtt	ttaagacaac	accaactctt	tttttttt	tttttttga	
47640		cccaggctgg				
47700		ttaagtgaac				
47760		acctggctaa				
47820		actcctgggc				
47880		gagccactgg				
47940		cacagcgtgg				
48000		aggaacgctg				
48060		aggtagcagt				
ttattggtcg	gggaccactc	tcagctccta	gaggccaccc	caggtccttg	ccccgtggcc	

48120					
	cagcagtggg	ggctccctgc	gtcagtccct	cccgcacctt	gagtctctct
	taaagggccc	tgtgattcgg	ctcagccacc	tttagattag	gttagcctcc
	actccaagtc	ggctgattaa	taaccttact	cacatctgca	gaatcccttc
tgccacataa 48360	ggtcatgacg	ccgtgctggg	gactggggtg	ggaaattacg	gggtcattta
ggattctgcc 48420	tgccactgcc	ttgctgtgtc	ccagggcttg	ggggagggc	ctccacagct
gggaccacag 48480	teetteetee	cctccatggt	aaccatctga	ggattacttg	agaccagcct
gggcaacatg 48540	gtgagaaccc	atccctacaa	aaaatacaaa	caaaaaggga	ccaggctggg
48600	·			caaggtgggc	
48660				tecegtetet	
caaaaattag 48720	ctgggtgtgg	tggcaggcgc	ctgtattccc	agctactggg	gaggctgagg
tgggagaatt 48780	acttgaacct	gggaggcgga	agttgcagtg	agccaaaatt	acgccactgc
actccagcct 48840	aggcaataga	gtgagactcc	gtctcaaaaa	aaaaaaggg	ccaggggtgg
tagtgacaaa 48900	gagaccctat	cccaaaaaaa	ccgaacactg	aatccttgag	actgagtaag
gacactgtga 48960	aatttttctg	ggtggggcag	ggaacagagc	gtcttctgtc	atttcttcca
cctgggtgtg 49020	gtcagctctc	cctccaagct	gcctcctctt	cttctcattg	tccgggtgtt
ggacacattt 49080	ggttaactgg	atagaataac	gcgagttccc	agggacttgg	tccatttgct
attttatttt 49140	attttatttt	attttattt	atttatttat	ttatttattt	atttatttat
tgagatggag 49200	tttcgttttt	gtcgcccagg	ctggagtgca	gtggcgcgat	ctcggttcac
tgcaacctct 49260	gcctcccagg	ttcaagtgat	tctcctacct	cagccttcca	agtaactggg
attacaggca 49320	cccaccacca	taccaggcta	atttttttgt	atttttagta	gagacgggtt
ttcgccattt 49380	tgcccaggct	ggtcttcaac	tcctagcctc	aggtgatcca	cgcacctcgg
cctcccaaag 49440	tgctgggatt	acaggcatga	gccaccacgc	ctggcaccat	ttgctatttt
aattcccatg 49500	tgtattagtg	tcccacggct	gctgtaacaa	atgaccacaa	actggatggc
ttaaagcaac 49560	agaaatggat	tcccccaatg	tgctggagac	cagaagcctg	cgaccaaact
gttgggaggg 49620	ctgtgcttcc	tctgggggct	ccagggagga	tctatttgtt	ggcccttcca
gtgctgtggg 49680	tgccagcgtt	ccacacttgt	ggatgcgccg	cctcaacctc	tgcccatctt
catgtgtcca 49740	tctcctttgt	gtctgcgtct	ttacctcttc	ttcttgtctg	tgttgcctct
tataaggacg 49800	tttgtcattg	ggtttagggc	ccacccaaat	catccgagat	gacctcgtct

tgagatcctt 49860	aacctgcaaa	gacccttttt	ccaaaaaaag	gttatgctca	cagattctag	
	atgggtgtat	ctttctgggg	ggcactatcc	aaccccttat	acaatgaaag	
acgggaagag 49980	ggccaggtgt	ggtagttcac	gcctgtaatc	tcagcacttt	aggaagctga	
agcgggagga 50040	tcacttgagc	ccaggagttt	acaagtagct	aggcaacatg	atgagacccc	
atttctacaa 50100	aaagtaaaaa	aaaaaaaaa	aaaaaaaag	ccaggtgtgg	tggctcacac	
ctgtaatccc 50160	agcactttgg	gaggctgagg	caggcagatc	acgaggtcag	gagattgaga	
ccatcctggc 50220	taacacggtg	aaaccccgtc	tctactaaaa	atacaaaaaa	ttatggccgg	
gcgcagtggc 50280	tecegeetgt	aatcccagca	ctttgggagg	ccgaggtggg	tgaattacaa	
ggtcaagaga 50340	tcgagaccat	cttggctaac	acggtgaaac	cccatcaaga	tcacaaggtc	
aagagatgga 50400	gaccatcctg	gctaacacgg	tgaaaccccg	tctctactaa	aaatacaaaa	
aattagccgg 50460	gcatggtagc	gggcgcctgt	agtcccagct	gctcgggagg	ctgaggcagg	
agaatggcgt 50520	gaacccggga	ggcggagctt	gcggtgagcc	gagatcgctc	catgccattg	
cactccagcc 50580	tgggtgacag	agtgagactc	cgtctcaaaa	aaaaaaaaaa	aaagaaaatt	
agccaggcac 50640	agtggcaggt	gcctattgtc	ccagctactt	gggaggctaa	ggcaggagaa	
tggcatgaac 50700	ccgggaggtg	gagtttgcag	tgagccgaga	tcatgccact	gcgctccagc	
ctgggcgata 50760	gagcaagact	ctgtctcaaa	aaaaaaagcc	aggcatggtg	gtgcatgcct	
	ctactcaaga	ggctgaggca	ggagggttgt	tcgacccacg	gagatcaagg	
ctacagtgag 50880	ccatgatcgc	accactgccc	tccagcctgg	gtgacagagt	gtgaccctgt	
ctcaaagtaa 50940	gtaaatagga	ggagagacaa	gtgggcagtt	cagactgatg	gtatgggcac	
agtagagact 51000	ggtgcagaca	ggctggcctg	tgatgtcaag	caacttctgt	aactgtttcc	
	tgtgtgtcaa	tttccgtgtç	agtaggaaga	ctctgtaggc	tgccaagagg	
aataagtggg 51120	aggatcctcc	cagagaggcc	gggcctgcag	gagggccagt	tctcatgagt	
tcttatttgg 51180	cccctaccct	ccaggctgtg	gttctgaggt	gggagacaga	gcctgacctc	
tgtttgtctt 51240	gttttgtctt	tgcagcagcc	cacccatgtg	cccgtgacaa	tggtggctgc	
tcccacatct 51300	gtattgccaa	gggtgatggg	acaccacggt	gctcatgccc	agtccacctc	
	agaacctgct	gacctgtgga	ggtaggtgtg	acctaggtgc	tcctttgggg	
	gtacctgatt	ctctgcctgc	taggctgctg	cctggcatcc	ttttaaaatc	
_	tggcatccag	tttccaaagc	tgattgtgtc	ttcctttgcc	ctcctttctt	
	tgcattcggt	gctatgaatt	ttcctctaag	tactgcgttt	cctgcatctc	

51540					
51540 acaaattttg 51600	ttacattttc	attttcaggt	agtttgaata	tttttacact	tctcctgaga
	ggctcatgtg	ttatttagaa	gtgttgctta	gtttctaaag	agttggggct
	tctctctgca	actgatttct	aatttaattc	tactgtagtc	tgagagctta
	tttctgttat	tttaaatgtg	ttgggtgtgg	tgtttttgtt	gttattgttt
ttgtgtcttt 51840	ttgttttgtt	ttgcttcgtt	tgttttgttt	ttgagacagt	gtcttgctct
gtcactcagg 51900	ctggagtgca	atggcgcgat	ctcagctcac	cgcaacctct	gcctcccggg
ttcaagtgat 51960	cctcttgcct	cagectectg	agtagctggg	attacaggtg	cacgccacca
tacccagcta 52020	atttttgtat	ttttagtaga	gacggggttt	caccatgttg	gtcaggctgg
52080	ctgacctcgt				
52140	ctgtgcctgg				
52200	gttctgtgta				
52260	acatcaatta				
52320	gactgcctgc				
52380	gatttgttta				
52440	ctccccctag				
52500	ttagggccaa				
52560	tggctggtgc				
52620	acctggcagg				
52680	atgcacagga				
52740	gtatcctcac				
52800	gtggccttgg				
52860	ctgggggttc				
52920	tttttttt				
52980	gtgtgatctt				
53040	cctcccaagt				
53100	cagtagagat				
53160	atccgcccac				
cacaccegga 53220	gtgccggttg	ttttagcag	tetgtettgt	Lectygagag	actygeteet

gcccaggagc 53280	tcggggagta	gggccgcggg	gtgctgcctc	acacctcgag	tttggccgta	
agcagagggg 53340	acattttgtg	actgtccccc	tcctgagctt	cccagcagct	tttctccaag	
ttacagccca 53400	aaagctcagg	tggatttgca	acccaacggt	gtctgtgcac	ctcccactga	
tgcccgaact 53460	gccctggcca	agaaacgggg	ccgtcagaac	gctgcactaa	ctgcagcctt	
gggcctccat 53520	gccagaggcc	atgcccttcc	atccaccacc	ccctggcctg	ggccctggcc	
ctcctggctc 53580	gggaactcca	ggccccttcc	tcacggatcg	agagacgtgt	atttaccgca	
caggtgcttg 53640	tcattctctt	gtggcctctt	ctccagggag	atcacagaag	gacagggcct	
53700				gccaggctgg		
53760				gecetteeet		
53820				aggagcttgt		
53880				ggctgagagg		
53940				gccccatgtc		
54000				gcttgcagac		
54060				cctgtggctg		
54120				tgatcaggcc		
54180				tggggaaggc		
54240				ccgatgtttt		
54300				aggcctgggc		
54360				ctgcacaaag		
54420				cctctggctt		
54480				ctgtgttatt		
54540				ggggcaggat		
54600				tccccctc		
54660				gtcccgtctt		
54720				gctatgcgca		
54780				gcaacaggtg		
54840				tgggcactca		
54900				tcagggctga		
cygagcattt	cigolgialt	rygryragog	cergergert	aaagctctga	ccccagccg	

E4060					
54960 gcaccctttc 55020	ccttctgcat	tgaaaaacat	acggatgcat	gtettettge	agtgaatgtg
	gcctctcttc	tgggttgggg	ctggaggtgg	agcggcacac	aggagccgca
	atgtgcgggt	gcagcacccc	gtacagcagg	gatgccaaac	ccgcgctgag
tccctctcaa 55200	cttctgcttt	gaagcccagt	cacgccattg	cctgggtttt	gctgggcggg
gctgcatgtg 55260	atgttctcct	ctgtccctcc	cccagagccg	cccacctgct	ccccggacca
gtttgcatgt 55320	gccacagggg	agatcgactg	tatccccggg	gcctggcgct	gtgacggctt
tcccgagtgc 55380	gatgaccaga	gcgacgagga	gggctgcccc	gtgtgctccg	ccgcccagtt
cccctgcgcg 55440	cggggtcagt	gtgtggacct	gcgcctgcgc	tgcgacggcg	aggcagactg
tcaggaccgc 55500	tcagacgagg	tggactgtga	cggtgaggcc	ctccccgtca	aggctctgcc
aagaccctgg 55560	ccctgccctc	cgggatacga	gcttggggct	gcctccggcc	tcacaggagt
aggggctctg 55620	aaaacctttg	cttgcaggga	gattgccaag	tctgtctttt	aggcccaaca
55680	tgcagttcca				
55740	tatctcacct				
55800	gggctgcaga				
55860	tccactgacc				
55920	tcaggaggta				
gcaggatctt 55980	cctttagatc	ttgacagtga	aacacatctc	ttctgtgccc	cctgtgagtt
56040	cattcattca				
56100	gctggagtgc				
56160	tteteetgee				
56220	aatttttgta				
56280	cctgacctca				
56340	ccaccgcgcc				
56400	catgttgtca				
56460	agagccaccg				
56520	tcacaaagag				
56580	ttctataaag				
aattttatgg 56640	aggctgtaga	ctaggggctg	gtaaactaag	ggcccagggg	ccaaatccag

cctgccacct 56700	acttttgtaa	ataaagtttt	cttggtgcac	agccatgccc	attcattcat
ttgcacaatg 56760	tctgtggctg	ctttcatgcc	aaaagcagga	gaactgagtg	gttatgctgg
agacctacgg 56820	ccttcaaagc	cccagacctc	acgtctggcc	cttgacagac	agagetteee
cagccctgct 56880	gcgcatcctg	gcccagcatg	tgctgtgtgt	gtgatttcag	cttgcaggag
ccgtggttag 56940	gaattgtccc	tgtgttggtc	cattttgcat	tgctatgaag	gagcacctga
ggccgggtag 57000	attatgaagg	aaagaggtct	gtctggctca	tggttctgta	ggcagcacca
gtatggcacc 57060	cgcatctgct	cagcttctag	tgaggtctca	ggaagctttg	actcatggtg
57120	cgggagcagg				
57180	agagcgcctc				
57240	agctcccatg				
57300	ctgctcccat				
57360	tattctgttc				
57420	ctattatttg				
57480	ggctcactgc				
57540	agctgggatt				
57600	ggggtttcac				
57660	ctcggcctcc				
57720	tttccgttga				
57780	agcttctcct				
57840	cacgctctgt				
57900	acaaggacag				
57960	ggggaactga				
58020	tggggagggg				
58080	tgtggccttg				
58140	cctcccctcc				
58200	ggcgaggctc				
58260	gccttgggcg				
58320	cacatacctc				
gcagtccctc	ccctgcgtgg	cataggcctc	gccacagggt	catcgagggt	gggtggagac

58380					
	cactccccgc	tggtcctaga	aagggtccca	tctgtctgct	ctctgtttgg
agtccagacc 58500	ttggttgctg	tgccctgcat	ggtgggctgg	ggggcaccct	ccagcctctc
tgagtgcatg 58560	gcctctcctt	gcagccatct	gcctgcccaa	ccagttccgg	tgtgcgagcg
gccagtgtgt 58620	cctcatcaaa	cagcagtgcg	actccttccc	cgactgtatc	gacggctccg
acgagctcat 58680	gtgtggtgag	ccagcttctg	gcacggggaa	ggggcgtccg	ggctgggttc
58740				cagcggggct	
tgggagactc 58800	aggcggctgg	gaggctcctt	gcgggaggca	gggaagcctt	tcccagggca
gcggccagga 58860	ggacagactg	tgagctgtgg	geteggegge	tacagagtct	gcctcagtgg
58920				cccacgggac	
58980				gtcctgttcc	
59040				atgtcatgtg	
59100				tgtacagtca	
59160				ccagaggcag	
59220				taggaagtag	
59280				cctgggctga	
59340				agggggcttc	
59400				aggcctgaag	
gggccaccaa 59460	gggtcgcctc	ctctgctggg	caagttccca	gtctgacggg	cctgtgccgt
59520		•		ctcgccgcca	
59580				tgggccggcc	
59640				aacttcccta	
59700				geceeteeeg	
59760				tcacccgggc	
59820				gtgaatacca	
59880				gggggtcaga	
59940				tggccaggct	
60000				tggcaaagcc	
gggcgcacgg 60060	tgtctgcccc	caaggagggc	ccattccgtt	ggggttaatg	ttggccacct

ctttctgttt 60120	gtctctggca	gaaatcacca	agccgccctc	agacgacagc	ccggcccaca
	cgggcccgtc	attggcatca	tectetetet	cttcgtcatg	ggtggtgtct
attttgtgtg 60240	ccagcgcgtg	gtgtgccagc	gctatgcggg	ggccaacggg	cccttcccgc
	cagcgggacc	ccgcacgtgc	ccctcaattt	catagccccg	ggcggttccc
	cttcacaggt	aaggagcctg	agatatggaa	tgatctggag	gaggcaggag
	gcagctttgg	ggagtggagc	agggatgtgc	taccccaggc	cctcttgcac
	cattgctaat	cgatcacagc	attcagcctt	tcccactgag	cctgtgcttg
	ccttcaacac	agaggcctgc	atggctgtag	caacccaccc	tttggcactg
	gaaagctcct	tggacttgac	cttcatattc	tagtaggaca	tgtgctgtgt
	tcctcatgta	ccctagaaat	gaatgtgggg	gcggctgggc	tctctccaga
	tcactctgta	ccatacagca	gctttgtctt	gagtgcagct	gggatttgtg
	tacaattcct	acgtggccca	ggcaccagga	acgcaggctg	tgtttgtaga
	gccgcaccgc	agagctgcac	catgctggtt	tgtatcacat	gggtgaccat
	agaaggtgga	gtccctgtga	ggtctgcagg	tgcccccaca	gctccaggcc
	ttgcctctgc	ctgcccagcc	ctgagttccc	tctcccctgt	cctgtcccac
	agccggcctc	attgggagcc	tgttggatgg	cagggtatag	atgtaacctg
attctctctg	gggagcgggg	ttatctggct	tctcaagagc	tcctaggagc	ccacagtggt
	cagtcgcagc	agececeaga	gaacgcggcc	ctgtctgttc	ctggcgtgct
	ccgcctgggt	tccctgcccc	agtcgcaggc	cccttggagg	aggtaccatg
	ttcacagatg	agccccgggg	agctcactct	agtagtggcc	agagaggcct
61260 gcggctcagg 61320	gagcggggca	catttccaac	aggacacacc	gccctggtct	gagtctcgtg
ggtagtggga	gcagaggaga	gcgccctatg	tctgtggggc	ggcttggctg	agcctggaag
	tececegtee	cttccctgcc	aggcatcgca	tgcggaaagt	ccatgatgag
61440 ctccgtgagc 61500	ctgatggggg	gccggggcgg	ggtgcccctc	tacgaccgga	accacgtcac
	tccagcagct	cgtccagcac	gaaggccacg	ctgtacccgc	cggtgagggg
cggggccggg	gaggggcggg	gcgggatggg	gctgtgggcc	cctcccaccg	tcagtgctgg
	cttcccgggt	tcctgggggc	tgtgccaccg	cctctgaggc	atgcttgctt
	tcaaaccctt	ctgcttcctt	ctttaatgac	attgttgatt	gtggataatc
61740 tgaaaactac	acaaaaatat	aaagagccaa	aatctcaccc	aaatccacct	cctagagtgg

61800					
	ccgtcagcat	ccaggcggcc	gtctgtgttc	cgcacggccc	agcccatcga
	caccaggcct	gtctgccctc	tgtgagcctc	cccacagggt	tccctccaca
	tctcccaccc	agggctggct	gcttcctgga	aaacagctgg	atggttttgt
gcatgacaga 62040	caaacacagg	gtgattttcg	tggctaaaat	actccctgga	gcttttggca
gggtgagggg 62100	ctggctccag	ctgagccacg	ccttgagtga	aatgactgtg	aggagaataa
actgccgctg 62160	ccctccagga	tcactggggc	tggctgggga	gaacccccgt	ttctgggagc
acagtcccag 62220	gatgccaagg	cgagcttggt	gccgagatgt	gaactcctga	gtgtaaacag
cgggggctga 62280	cttgacatgc	tttgtatgct	tttcatttgt	tcctgcagct	gtatgcccct
aaggtgagtc 62340	cagccccctt	ctgcttcctc	tggggcctcg	ccagtgagcc	ccaccttgct
ggggctggtt 62400	cctcctgccc	ttctgggtat	ccctcacatc	tggggtcttg	tcttcttgtt
ttatttttct 62460	ttttttttg	agacggagtt	tcacttttgt	tgcccaggct	tcagtgcaat
ggtgtgatct 62520	ctaggctcac	cgcaacctct	gcctcccagg	ttcaagcagt	tctcctgcct
cagcctccct 62580	agtagctggg	attacaggca	tgtgccacca	cgcccagcta	attttgtatt
tttagtagag 62640	atggggtttc	tccatgttgg	tcaggctgat	cttgaactcc	ctacctcagg
tgatccgccc 62700	accttggcct	cccaaagtgc	tgggattaca	ggcgtgagcc	accgcacctg
gcctttttct 62760	tttctttct	tttctttttt	ctgagacagg	gtctcgctct	gtcacccagg
ctggagtgca 62820	atggtgtcat	catggctaac	tgcagcctct	accttctagg	ctcaagcaat
cctcccatct 62880	cagcccctaa	gtagctagga	ctgcacgcat	gcatccccat	gcccagctaa
tatttacatt 62940	ttttgtagag	atgaagtttc	actatattgc	ccaggctggt	ctccaactcc
tggactcgag 63000	cgatcctcct	gcctcggcct	ccccaggtgc	tgggattaca	ggcgtgagcc
63060				actgtggtgg	
ggaagtagca 63120	gaagagggtt	cttcttggtt	tcctggacag	taactgagtg	ttctggaggc
63180				accagaagcc	
acacccactg 63240	cccttcttcc	ctgctcctgc	tgctgcaacc	cagcttaacc	agccaggagt
63300				gctcacgaat	
63360				aagagatggc	
63420				ctcacccact	
tacagttcag 63480	tgggttttag	tgtattcaca	gatgtgtgca	accctcacca	cagttaattt

tagaacattt 63540	teetgeeest	aaaagaaact	ctgcatgaag	ccagctgttt	ttaaattagc
	tgcatccttt	aaatatatgt	tcatggtaca	aaattcaaaa	gatacagaag
	ccaaagagac	teegeeecea	tgacgccaag	caggactccc	tgggaggcat
	agtgtgtttc	ttctatgtcc	ccccaggggt	catctgtaca	tatgcaagca
	tggactttgt	tttccaagcc	agaagataat	tgtagattta	tgtgcagttg
	cacagaccca	tttatcctct	gcctggtttc	ccccagtgct	gcctgccatc
	tccattccta	tcataagcaa	gacactgata	acgattcttt	caccttattc
	aagtgttttt	tgtttgttct	tgagacaaac	ttcctctgtc	acccagtggg
	cacaatcaca	gctcactgca	gcctcaaact	cctgggctca	agcgattctc
	cccctcaagt	agctcagatg	gcaggtgtgc	accatcatgc	caggctaatt
	ttgtggaggt	gaggcctcac	taaatttcct	gggctagtct	tgaactcctg
	atcctcctgc	ctcagcctcc	caaagtggta	ggattacagg	catgagccac
	ctgacatatg	tgttttcgta	agcccgaaag	atagcatctg	aagagtcaac
	gccttttgct	gctaatgatg	tataaaagct	gctgttctga	gcatttcgga
	tgccgtgtgc	accctgccta	gagctctacc	gtaacccatc	tccgggagga
ggtgctattg 64440	ttttcctcat	tttgcaacaa	ggaggctgaa	gaactgagca	tgaaccactg
gcctgggtcg 64500	ttcggttggt	aggcagtggg	gccaggccat	ccaactcaca	accaccttct
actctgcttc 64560	ccccgcaccc	tgaagtttgt	tctgttttga	ggacacagcc	gtcacattct
tggtggctga 64620	acagcactcc	ttgtcaggtg	tggctgggcc	cccactggag	ggcatcatgg
tcctctctcc 64680	tgctgcggtt	gaaccttggc	tgtttcaacc	actcctgcca	agtggccctc
tgaaagggac 64740	agtccatctt	ttctcagcag	agggccacac	tggcaaaacg	gtccctggca
ccctttctct 64800	ccacctgtct	aatatagagt	aaaaatggta	tcatgttaag	atcttcattt
atatttattt 64860	tatcatgaat	gatgtaagca	tcattttgtg	tgtttaagaa	cctttgggcc
cagcgtgatg 64920	gcttgcagct	gtaatctcag	cactttagga	ggctgagatg	agcggatcac
ttgaggccgg 64980	gagtttgaga	ccagcctggc	caacatggag	aaaccccgtc	tctagtaaaa
65040	tagccgggta				
65100	gggaggcgga				
65160	gcgagactct				
tcaatctcct	cttttatggc	atatatat	atatatat	atatatatat	ttatttccct

65220					
	tgttcataaa	ggcctcccct	gctctgatca	taaaaaacaa	cttattttca
	cttttttt	tgagacagag	ttttgctcct	gttgcccagg	ctggagtgca
gtggcgcaat 65400	ctcagctcac	tgtaacctcc	gcctcccggg	ttggagtgat	tctcctgcct
taccttcccg 65460	agtagctggg	attataggca	tgcaccacca	tgcctggcta	attttgtact
tttagtagag 65520	acgggggttt	ctccatgttg	gtcaggctgg	tctcgaactc	gcgacctcag
gtgatccacc 65580	cacctcggcc	tcccaaagtg	ctgggattac	agacgtgagc	caccatgccc
65640	ctctttctta				
65700	taattagatt				
ggcttatggg 65760	tggcgtgaat	tagtcggggt	ctatcaggag	gcagaaactc	tatgagaatt
65820	aagttccgtc				
65880	tacagagaac				
65940	agcactttgg				
66000	gccaacatag				
66060	cgcatgcctg				
66120	aggcagaggt				
66180	gagactcagt				
66240	cagccccac				
66300	gggcgtggtt				
66360	gaagtctgcc				
66420	accaggcctg				
66480	gcagctgtag				
66540	cccagtgccc				
66600	actggctctc				
66660	taaagggcag				
66720	ccccaggaag				
66780	tttaaattta				
66840	cgatctcaac				
66900	cccaagtagc	cygyaccaca	ggtgeeegee	accacacceg	geraarere

atatttttag 66960	tagagacgag	gtttcaccat	gttggccagg	ctggtctcga	actcctgacc
tcaagtgatc 67020	cgcccgcctc	ggcctcccaa	agtgctaggt	caagcccatt	ttaaagttga
	gctgaggtaa	attccctccc	cagggatcct	gctgcagcca	gaaggtggta
	tcacccgggt	ctgtctggcg	tgaaaggcag	tgttcttgta	ccaccctagg
	gaactgagtc	cctcgggcat	aactgacagt	tctgttccca	ttattccgca
	tctggctgta	tgctttccag	gatggccttg	gagacccaca	taagccctac
accctttggg	aagctgcatg	ttgggttggg	gtgccgtcag	tggcacttgt	ggaaggtgca
	ggtgtgtggg	cccagggccc	ctggtccctt	cctccctttg	tagggctggt
	ctggacctgg	ggggcacgtt	cacgtggtga	atttgtctat	ttactatccc
	ctggtgccag	cacaggccct	tgtgaagggg	gtgcctttgt	ctggagtggg
	ctccctcagc	gtggtgactt	ctgtgtcagg	gcttcagcag	ggacgcagag
	ttcggaacaa	gggcgtcatt	gcaggagtta	gactgtgtgt	gatggaggga
	gaggaaaggt	cagaaggaga	gttcctggga	aggtccctga	ggagcctggt
	ctggtgtgga	ggacactcag	ggcctgtggg	gacatctcct	actgctgggg
	aagggaactg	gccgaagtcc	tgtccccgcc	ttcacagccc	agcatctggt
	gtacttggaa	gggcgcgggc	acctgggcca	aaagtgcctg	ggttcccttt
	gagatgacct	tcggggcagg	tggctgctgc	ctcccctcct	gtccccaggt
	ggccagagga	aggggtcctg	ggaagcaggg	gggccagaag	ccctctctgc
	cgaggggtgt	gggaggaagg	aaggaatgcc	caggctggcg	aggctctaag
	ttggctctcc	tcagatcctg	aacccgccgc	cctccccggc	cacggacccc
	acatggacat	gttctactct	tcaaacattc	cggccactgc	gagaccgtac
	tcccctgcag	ccctccatgg	ccattgggtt	cccgccagcc	cgtggtggag
	cccatgccac	tgatgagggg	aggtattctg	ggtgctagtg	ggcaggtgcc
	ctgcctccct	ctgctctgcc	aaccacacta	ggctgcctcc	ccagacaagc
	ctgcatgttg	ggttcagaaa	tcagcagaac	tccacgttct	gagctgctct
	cctatggggg	ttacttttaa	gctgggaaat	ggctgtggcg	tcgaggggcc
	gctccaaact	ctgactgtgt	gtttgagtcc	ggctgtggaa	acctagccat
	cctcttggtg	gctctgtcct	cttaggatgg	gacaagtctg	tgaaggctgc
68580 tgcagcaccc	accgtagacc	cctaatcgtg	tgacgtcacc	aggatggtcc	gggctgctca

68640					
	tggcctgttt	gagcccggga	agccaacggg	gctgctcagc	tggacaccag
	tgcccatgtt	ggggtcacag	gccccacctc	cctggttggg	gaggggcaac
	gagaggtggg	acccaggtgt	gctggtctcc	gcaggggctg	gatcagagcc
tgggatgggc 68880	agggtgagcc	tcctgacctt	taacccagtg	gtgtcaggca	acgtggccca
cccgccagcc 68940	gcaccaggcc	ccacccccgc	aggtgaaggg	gtgggatagg	ctgggcctgg
gccaggacac 69000	ctctggacca	cgcattcctc	attgcttggg	tccctggagc	agcagggcct
69060		ccacctagtg			
gggagccgga 69120	actgcagcct	ccatttccac	cccactccgg	gtcgggccac	ctccctgatg
69180		gtcacagtct			
69240		ggcagcccag			
69300		tctgggccca			
69360		ccccaagagg			
69420		tcccacccat			
69480		gagtctgaac			
69540		tctgggagga			
69600		aagtgttccg			
69660		acccaagact			
69720		ggggtggcct			
69780		cagggaacag			
69840		ctagtgagat			
69900	_	tcatctccca			
69960		agatttgggt			
70020		aggtgaacag			
70080		gaatctcatg			
70140		agaaactaaa 			
70200		gaggcctcgt			
70260		aggtgcgggc			
ctcagagagg 70320	gtaagtgatg	agccctggcg	acacagcggg	grgggrccag	agtccggcct

gcatcttctg 70380	gagctggcca	gtggacaggc	ctttcccgtt	cacageeeeg	gggctgctgt
gcccaccagg 70440	gcggatgtgc	ctaccgaatc	ccactcctct	gtgtgtgtcc	ctttcaggcc
ctacatcatt 70500	cgaggaatgg	cgcccccgac	gacgccctgc	agcaccgacg	tgtgtgacag
cgactacagc 70560	gccagccgct	ggaaggccag	caagtactac	ctggatttga	actcggactc
agacccctat 70620	ccacccccac	ccacgcccca	cagccagtac	ctgtcggcgg	aggacagctg
cccgccctcg 70680	cccgccaccg	agaggagcta	cttccatctc	ttcccgcccc	ctccgtcccc
	tcatcctgac	ctcggccggg	ccactctggc	ttctctgtgc	ccctgtaaat
	atgaacaaag	aaaaaaatat	attttatgat	ttaaaaaata	aatataattg
	aacatgagaa	atgtgaactg	tgatggggtg	ggcagggctg	ggagaacttt
	gaaatattta	taaacttaat	tttgtaaaac	agaactgcca	ttcttttgtg
	atttgagttg	tgtgtccccg	tggagggaat	gccgaccccc	ggaccaccat
	ctgcacccgg	gcgtccctct	gtccggctcc	tgcagggaag	ggctggggcc
ttgggcagag 71100	gtggatatct	cccctgggat	gcatccctga	gctgcaggcc	gggccggctt
	tggcctgtgc	cgtcagaaag	ggccctgggc	ttcatcacgc	tgttgctgtt
	agattcttag	tcttttttt	tttttttt	ttttgagacg	gagtctttct
	ggctggagtg	cagtggtaca	atctcagctc	actgcaagct	ccgactccca
ggttcaagtg 71340	agtctcctgc	ctcagcctcc	cgagtagctg	ggactacagg	tgcgcgccac
cacacccgcc 71400	cagctaattt	ttgtattttt	agtagagatg	gggtttcacc	atgttggcca
ggatgatctc 71460	gatctcttga	cctcgtgatc	cgcccacctc	ggcctcccaa	agtgctggga
	gagccactgt	acccagctga	ctcttagtca	cttttaagaa	ggggactgtg
ccttcatttt 71580	tcactgggcc	ctgcagaata	tatgcctggg	ctctgggctc	ttctgaacct
gtgttggctt 71640	ccatctgacc	tetetgtgee	agcccaaggc	tgctgctctt	cctgagggca
aggagcccca 71700	tgactgcgtg	ttgactcgct	ggatggggct	gctgagccca	ctctgccaca
ccacgtgccc 71760	ctggcaggga	gggaatccct	gggtcctcac	aggaacagtc	agcaagccac
acctgacgcc 71820	tgctgtgggc	ccatccctgc	ggtgctggag	aagacagaca	aggcctggtc
actgcctctg 71880	cagggtcccc	agtccgtgga	aggagacagt	aatctaggca	ttttcggtgg
	ctgttctcgt	gtcctgaagg	ccaggcggga	acagccgtct	tcagagggaa
	gcacatcgca	tcagtggaga	agggcctgac	ttccctcagc	atggtggagg
	aacagtcaag	cttgagtatt	ctatagtgtc	acctaaata	

1920

<210> 10 <211> 8705 <212> DNA <213> Homo sapiens <400> 10 ggactcaggg gcagcaggga ggtacaccca tggttagtgg gcggaccata gggggtaatg 120 agagggtgaa tcgatggaac ctgggggaca caatcgaagt ggttccagag tcgggctgta 180 ctaattaaag agacggggca gtggacaggc attttcagtt gactgcccag ggagtgttct 240 gcccaacagg gaggatatgc gtacagaatc atactcgatc agcatgagtc caattcagac 300 cgtacatcag tggagatatg ggtcccccga tgactccgtg gaacactgat gtttgtgaca 360 ggggagtaca gcaccagcca tcagcaggcc agtaaatcat accggcctgc gaaattggac 420 teagaceegg atecaeeetg acegaegtee caageeeeca eeeeceaeee eecaeeatgg 480 gccgagatcc agtcctcttt gaatagggcc tggccgtggt tcacgggaca tctgagacat 540 tgccgaggcg ctgcattggt ggatcttgcc agaagtttgc ccagtgcaga tttgggcaga 600 atctcaaact gccttgggat gtaggagaga aaccaggcct ggtcaagttc atgggaagag 660 gtggaaacag accccatagg ctggggcttg ggcagctgta ggaagccctc tctgctgcct 720 ccctgcctgc tctctgcttt gaagcatctt ccccagtgcc cccagtctca tgccctctca 780 acgttggggt caaatcctga ggaataccca gactggctct ctgggccaaa gaggaccctc 840 tccagaaaga gcagggccca gtgcggcttc ctaaagggca ggggaagggc ctggccactc 900 cccagaggct actcaccagc catcaggata gccccaggaa gcaggccttc tcgagcccat 960 actotyttgc ccaggotyga gtgcagtygt gcgatotcaa cccactycag cototycoto 1020 cagggttcaa gggattctcc cacctcagcc tcccaagtag ctgggattac aggtgcccgc 1080 caccacaccc ggctaatttt catattttta gtagagatga ggtttcacca tgttggccag 1140 getggteteg aacteetgae etcaagtgat eegeeegeet eggeeteeca aagtgetagg 1200 tcaagcccat tttaaagttg aagaaactga ggctgaggta aattccctcc ccagggatcc 1260 tgctgcagcc agaaggtggt aaaacaggac ttcacccggg tctgtctggc gtgaaaggca 1320 gtgttcttgt accaccctag ggggcctgag agaactgagt ccctcgggca taactgacag 1380 ttctgttccc attattccgc aggggctcgg atctggctgt atgctttcca ggatggcctt ggagacccac ataagcccta caccetttgg gaagetgcat gttgggttgg ggtgccgtca 1500 gtggcacttg tggaaggtgc agacctgtgt gggtgtgtgg gcccagggcc cctggtccct 1560 tcctcccttt gtagggctgg ttgtgtgctg cctggacctg gggggcacgt tcacgtggtg 1620 aatttgtcta tttactatcc ccgctttggg gctggtgcca gcacaggccc ttgtgaaggg ggtgcctttg tctggagtgg gactgtggcc cctccctcag cgtggtgact tctgtgtcag 1740 ggcttcagca gggacgcaga gcccctgagt gttcggaaca agggcgtcat tgcaggagtt agactgtgtg tgatggaggg aggaggggca ggaggaaagg tcagaaggag agttcctggg aaggtccctg aggagcctgg tgaggtgcta actggtgtgg aggacactca gggcctgtgg

ggacatetee tactgetggg ggecageeac aaagggaact ggecgaagte etgteeeege

1000					
1980 cttcacagcc 2040	cagcatctgg	tcacaaggca	ggtacttgga	agggcgcggg	cacctgggcc
	gggttccctt	tgcctttcac	tgagatgacc	ttcggggcag	gtggctgctg
	tgtccccagg	ttttgccaac	tggccagagg	aaggggtcct	gggaagcagg
	gccctctctg	caaggaaagc	ccgaggggtg	tgggaggaag	gaaggaatgc
	gaggctctaa	gtcaccctgg	cttggctctc	ctcagatcct	gaacccgccg
	ccacggaccc	ctccctgtac	aacatggaca	tgttctactc	ttcaaacatt
ccggccactg	cgagaccgta	caggtaggac	atcccctgca	gccctccatg	gccattgggt
tcccgccagc 2460	ccgtggtgga	ggggcctaat	ccccatgcca	ctgatgaggg	gaggtattct
	gggcaggtgc	cgggcccagc	cctgcctccc	tetgetetge	caaccacact
	cccagacaag	ctcagcgggc	actgcatgtt	gggttcagaa	atcagcagaa
ctccacgttc 2640	tgagctgctc	ttcaagttgc	tcctatgggg	gttactttta	agctgggaaa
	gtcgaggggc	cgggggcttg	ggctccagag	tctgactgtg	tgtttgagtc
cggctgtgga 2760	aacctagcca	ttgagatgcc	ccctcttggt	ggctctgtcc	tcttaggatg
	gtgaaggctg	ctgcagcacc	caccgtagac	ccctaatcgt	gtgacgtcac
	cgggctgctc	acttgccaca	gtggcctgtt	tgagcccggg	aagccaacgg
	ctggacacca	gccccccgag	ctgcccatgt	tggggtcaca	ggccccacct
	ggaggggcaa	ctgagagtgt	ggagaggtgg	gacccaggtg	tgctggtctc
	ggatcagagc	ctgggatggg	cagggtgagc	ctcctgacct	ttaacccagt
	aacgtggccc	acccgccagc	cgcaccaggc	cccacccccg	caggtgaagg
	gctgggcctg	ggccaggaca	cctctggacc	acgcattcct	cattgcttgg
	cagcagggcc	tcccgagtgt	ggtgccgcct	gccacctagt	ggccatttcc
acgaactccc 3300	aggcctggct	ggggagccgg	aactgcagcc	tccatttcca	ccccactccg
ggtcgggcca 3360	cctccctgat	gcctcagtat	tatatcaaac	tgtcacagtc	tgtcccacag
	cactgtctcc	agaatggtca	catccacact	gggcagccca	gtctcgctag
-	cacctcctgc	ctttgctcat	gcccgtcctg	ctctgggccc	accgcggaca
	ccgcccgccg	tctgacctca	cagcagctgg	gccccaagag	gagtatcctg
	cttttctcaa	cacccggtgt	tggctgcacc	ttcccaccca	ttgcaggccc
	ggacgggggc	tcctaaacac	accacagttc	cgagtctgaa	ctcacacagt

gggatgcggc 3720	gtttctgggc	cacagttggg	tgcaggtagc	ctctgggagg	atgggaggtc
aggagccatc 3780	ttgcgagtca	ggttgcttga	actcaggatg	gaagtgttcc	gggcccattg
gttgctgtat 3840	tagcctgttc	tcacgctgct	aataaagaca	tacccaagac	tgggtaattg
taaaggaaag 3900	aggtttaacg	gactcacagt	tccacctgcc	tggggtggcc	tcacaatcat
ggtagaagac 3960	aaggaggagc	aagtcacatc	ttacatggct	tcagggaaca	gacagcatga
gaaccaagcg 4020	aaaggggttt	ccccttgtaa	aaccatcaag	tctagtgaga	tttattcact
accacgagaa 4080	cagtatgggg	ggaaccaccc	ccatgattca	atcatctccc	actgggtccc
tcccacagca 4140	cgtgggaatt	atgggagtac	aattcaagat	gagatttggg	tggggacaca
gccaaaccct 4200	atcggttgcc	aacatttaca	gtaacagtgt	taggtgaaca	gttgtccagt
ctcctgtttt 4260	gtcggacact	gtttctagca	ccttccaggc	agaatctcat	gtatccttca
ctttcgaaat 4320	gggtactatt	tcatccccac	ttttatcaat	gagaaactaa	agctcgaaga
ggtcaagtaa 4380	gttcctggcc	aaggtcagct	agcaggctct	agaggcctcg	ttctccttag
aggcagcctt 4440	gccagggccc	aggettggea	ggctgcaggg	caggtgcggg	catgcccatg
gtagaggtgg 4500	gaccattgag	gctcagagag	ggtaagtgat	gagecetgge	gacacagegg
ggtgggtcca 4560	gagtccggcc	tgcatcttct	ggagctggcc	agtggacagg	cctttcccgt
tcacageeee 4620	ggggetgetg	tgcccaccag	ggcggatgtg	cctaccgaat	cccactcctc
tgtgtgtgtc 4680	cctttcaggc	cctacatcat	tcgaggaatg	gegeeeeega	cgacgccctg
cagcaccgac 4740	gtgtgtgaca	gcgactacag	cgccagccgc	tggaaggcca	gcaagtacta
4800	aactcggact				
cctgtcggcg 4860	gaggacagct	gcccgccctc	gcccgccacc	gagaggagct	acttccatct
cttcccgccc 4920	cctccgtccc	cctgcacgga	ctcatcctga	cctcggccgg	gccactctgg
cttctctgtg 4980	cccctgtaaa	tagttttaaa	tatgaacaaa	gaaaaaaata	tattttatga
tttaaaaaat 5040	aaatataatt	gggattttaa	aaacatgaga	aatgtgaact	gtgatggggt
5100	gggagaactt				
cagaactgcc 5160	attctttcgt	gccctgtgtg	catttgagtt	gtgtgtcccc	gtggagggaa
5220	cggaccacca				
ctgcagggaa 5280	gggctggggc	cttgggcaga	ggtggatatc	tcccctggga	tgcatccctg
agctgcaggc 5340	cgggccggct	ttatgtgcgt	gtggcctgtg	ccgtcagaaa	gggccctggg
cttcatcacg	ctgttgctgt	tcgtcttcct	cagattctta	gtctttttt	tttttttt

5400					
5400 ttttttgaga 5460	cggagtcttt	ctctgtcatc	caggctggag	tgcagtggta	caatctcagc
	ctccgactcc	caggttcaag	tgagtctcct	gcctcagcct	cccgagtagc
	ggtgcgcgcc	accacacccg	cccagctaat	ttttgtattt	ttagtagaga
	ccatgttggc	caggatgatc	tcgatctctt	gacctcgtga	teegeecace
5700	aaagtgctgg				
5760	aaggggactg				
5820	tcttctgaac				
5880	ttcctgaggg				
5940	cactctgcca				
6000	tcagcaagcc				
6060	caaggcctgg				
gtaatctagg 6120	cattttcggt	ggggaagctg	agctgttctc	gtgtcctgaa	ggccaggcgg
gaacagccgt 6180	cttcagaggg	aagggagaaa	atgcacatcg	catcagtgga	gaagggcctg
acttccctca 6240	gcatggtgga	gggaggtcag	aaaacagtca	agcttgttgc	tgggtgacag
tgcatttaat 6300	aatcaaaata	taggctgggt	acggtggctc	atgcctgtaa	tcccagcact
ttgggaggct 6360	gaggcaggtg	gatcacttga	ggccaggagt	ttgagaccgg	cctggccaac
atggcaaaac 6420	ctcaactact	aaaatacaaa	aactagccgg	gcgtggtggt	gcacgcctgt
aatcccagct 6480	acttgggagg	ctgaggcagg	agaattgctt	gaacctggga	ggcggaggct
gcagtgagcc 6540	gagattgtgc	cactgcactc	cagcctgggc	aacagagcaa	gactctgtct
caaaaaaaaa 6600	aaaaaaaaa	gcaatacaaa	atacaaatat	cactttcact	aaaagaaggg
atggaagacc 6660	caaaacaaac	agaaaacaac	aaaatggcag	gagtaagtcc	ccacttatca
ataataacat 6720	tgactgtaaa	taggctaagc	tctgcaatca	aaagagtggg	ccaggagcgg
tggctcacgc 6780	ctgtaattcc	aacgctttgg	gaggctgagg	cggatggatc	atttgatgtc
acgagtttta 6840	agaccagcct	ggccaacaag	gtgaaacccc	atctgtacta	aaaatacaaa
aattagccag 6900	gcggtagtgg	cacgcacctg	taatcccagc	tacttgtgag	gctgaggcag
gagaatcact 6960	ggaggctggg	aagcggaggt	tgctgtgagc	caagatggag	ccactgcact
	cgacagagtg	agatcctgtc	ttaagaaaaa	aaagagtgga	tgaatggatc
	acccaaccat	ctcttgcata	caagaaacac	actttaccta	taaaaacaca

ctaggccagg 7140	tgtggtggct	cacacctgta	atcccagccc	tttgggaggc	ctgactggca
gatcacctga 7200	ggccaggagt	ttcagaccag	cttgaccgac	atggcaaaac	cccatctctc
ctaaaaatac 7260	aaaaaaacaa	aaaaaagaaa	aaggctggaa	gtagtgatgt	gtgcctgtag
ccccagctac 7320	ttgggaggct	gaggcaggag	aattgcttga	atccgggaag	tggaggttgc
agtgagccag 7380	gatggtgcca	ctgcactcca	gcctgggtga	cagagcgaga	ccctgtcata
aaaaaaaaa 7440	gaaaagaaaa	gaaaaacgag	aaaaacaaac	acaaaattag	tagaagaaaa
gaaataataa 7500	agatcagaac	aggccaggct	catgggcaca	gtggctcaac	tcctacctgc
tcaggagttt 7560	gagaccagtc	tggccaacat	ggcaaaaccc	catctctcct	aaaaatatga
aaaaaaaaa 7620	ataggctgga	tgtggtgatg	tgtgtgtgcc	tgtagcccca	gctacttggg
aggctgaggt 7680	gggagaatca	cttgagccca	ggaagtggag	gctgcagcga	gtcatgaatg
caccetgeae 7740	tctagctggg	taactggagt	gagattctgt	ctcaaaaaag	caaagaccag
agcagaaata 7800	aatgaaatgg	aaatgaagga	aacaatgcaa	aatgatacaa	aaagtttttt
cgaaaagata 7860	aacaaaatca	acaaaccttt	agccagatta	agaaaaaaag	agagaagacc
caaataaata 7920	aaatccgaga	ttaaaaagga	gacattacca	ctgataccac	agaaattcaa
aggatcatta 7980	gaggcaacta	tgtgcaacta	tatgctaatg	aactggaaaa	cctagaagaa
ctgggtaaat 8040	ttctagacac	atacaaccta	tcaagattga	accatgaaga	aatccaaaac
ctgaacaggc 8100	cgggcacggt	ggcttacgcc	tgtaatccca	gcactttgga	aggcctgaga
tcaggagttc 8160	gagaccagcc	tggccaacat	ggtgaaaccc	catctctact	gaaaaaatat
aaaaattagc 8220	cgggcgtggt	ggcgggtgcc	tctaatgtca	gccactcggg	aggctgaggc
aggaaaatca 8280	cttgaacctg	ggaggcatag	gttgcagcga	gccgaggttg	caccactgca
ctccagcctt 8340	ggcgacagag	ccagactcca	tctcaaaaaa	attaaaataa	caaaaacctg
aacagaccaa 8400	taacaagtaa	tgcgatgaaa	actgtaataa	aatgtttccc	aacaaagaaa
gcccaggaac 8460	aaatggcttc	actgctgaat	tttaccaaac	attttttt	ttttgagacg
gagteteget 8520	ctgtcgccca	ggctggagtg	cagtggtgta	acctcggttc	gctggtaact
tatgcctctc 8580	aggctgcaag	tgattttcct	gcttcaggcc	ccccgagtgg	ctggaaatta
gatggtactt 8640	gtcaaacaag	gcctggctaa	atttctatat	ttccttcaag	tagaagatgt
gcttccaaca 8700 aaaag	aaggttgggt	tacggctggc	ttctgaaaat	cttggatttc	aaggeteeee
8705					

<210> 11 <211> 66933 <212> DNA <213> Homo sapiens

## <400> 11

<400> 11					
	cgcgttccgt				
	ttgatcttaa				
agcaatagta	atggctctca	gtccccgtgg	atggaggagc	aaattcggga	tgcctgggga
	taaaaaatgt				
	tttttgaaca				
	tttgggaacc				
tgggagatta	gataatgaag	cgtgcgcctg	ttattccaaa	acatacgctc	aatactcaac
	tacttcgtta				
	aatggctcgc				
	tgaagtgctc				
	tgaccaggag				
	tggtcaacag				
	gagtcgccgt				
	gctggatgat				
	tgcttatgaa				
	ttctgcgctg				
gtatcaacac 1020	cgccaaattg	cctaaatcag	ttgttgctct	tttttctcac	cccggtgaac
tatctgcccg 1080	gtcaggtgat	gcacttcaaa	aagcctttac	agataaagag	gaattactta
agcagcaggc 1140	atctaacctt	catgagcaga	aaaaagctgg	ggtgatattt	gaagctgaag
	tcttttaact	tctgtgctta	aaacgtcatc	tgcatcaaga	actagtttaa
	tcagtttgct	cctggagcga	cagtattgta	taagggcgat	aaaatggtgc
	caggtctcgt	gttccaactg	agtgtataga	gaaaattgag	gccattctta
	aaagccagca	ccctgatgcg	accacgtttt	agtctacgtt	tatctgtctt
	cctttgttac	aggccagaaa	gcataactgg	cctgaatatt	ctctctgggc
	acttgtatcg	tcggtctgat	aatcagactg	ggaccacggt	cccactcgta
	gattattagt	ctgggaccac	ggtcccactc	gtatcgtcgg	tctgattatt
	cacggtccca	ctcgtatcgt	cggtctgata	atcagactgg	gaccacggtc
	cgtcggtctg	attattagtc	tgggaccatg	gtcccactcg	tatcgtcggt
	gtctgggacc	acggtcccac	tcgtatcgtc	ggtctgatta	ttagtctgga
	cactcgtatc	gtcggtctga	ttattagtct	gggaccacgg	tcccactcgt
	tgattattag	tctgggacca	cgatcccact	cgtgttgtcg	gtctgattat
	ccacggtccc	acttgtattg	tcgatcagac	tatcagcgtg	agactacgat
	cctgtcaagg	gcaagtattg	acatgtcgtc	gtaacctgta	gaacggagta
	gcggttgtat	gcctgctgtg	gattgctgct	gtgtcctgct	tatccacaac

2040						
	cggttatgtg	gacaaaatac	ctggttaccc	aggccgtgcc	ggcacgttaa	
ccgggctgca 2160	tccgatgcaa	gtgtgtcgct	gtcgacgagc	tcgcgagctc	ggacatgagg	
ttgccccgta 2220	ttcagtgtcg	ctgatttgta	ttgtctgaag	ttgtttttac	gttaagttga	
tgcagatcaa 2280	ttaatacgat	acctgcgtca	taattgatta	tttgacgtgg	tttgatggcc	
tccacgcacg 2340	ttgtgatatg	tagatgataa	tcattatcac	tttacgggtc	ctttccggtg	
atccgacagg	ttacggggcg	gcgacctcgc	gggttttcgc	tatttatgaa	aattttccgg	
tttaaggcgt 2460	ttccgttctt	cttcgtcata	acttaatgtt	tttatttaaa	ataccctctg	
aaaagaaagg 2520	aaacgacagg	tgctgaaagc	gagctttttg	gcctctgtcg	tttcctttct	
ctgtttttgt 2580	ccgtggaatg	aacaatggaa	gtccgagctc	atcgctaata	acttcgtata	
gcatacatta 2640	tacgaagtta	tattcgatgc	ggccgcaagg	ggttcgcgtc	agcgggtgtt	
ggcgggtgtc 2700	ggggctggct	taactatgcg	gcatcagagc	agattgtact	gagagtgcac	
catatgcggt 2760	gtgaaatacc	gcacagatgc	gtaaggagaa	aataccgcat	caggcgccat	
tcgccattca 2820	ggctgcgcaa	ctgttgggaa	gggcgatcgg	tgegggeete	ttcgctatta	
cgccagctgg 2880	cgaaaggggg	atgtgctgca	aggcgattaa	gttgggtaac	gccagggttt	
tcccagtcac 2940	gacgttgtaa	aacgacggcc	agtgaattgt	aatacgactc	actatagggc	
gaattcgagc 3000	teggtaceeg	gggatcctct	agagtcgacc	tgcaggcatg	caagcttctc	
ttgtgccggt 3060	tgtacgctgt	caggtcacac	tggtgagtta	ggcagggcac	agatgcccag	
agcagaggga 3120	actttccttg	gggattcaac	acgtgcaagt	cttaggggct	ggcaaatcct	
gccctcagct 3180	agagagggg	cttttatttg	agaccagaat	cacctgagca	tcctcctgtc	
cccagctgtg 3240	tccagcctgt	ctgcagggac	atcctgagag	gaccaggctc	tcccctcatc	
cacctgccta 3300	agtgccactc	tgaaccctgt	ccacctgtgc	cgtggagggg	cgtgacctca	
agctgctcag 3360	ccagcagcag	gcttggccct	ggggggcagc	agagacccag	gtggctgtgg	
ggtgggtgct 3420	tcgtggcgtg	gttctgaaac	ttcgttggaa	gtgtgtggac	agtgccttgc	
ctgttctctg 3480	tgggacccta	tttagaaacg	aggtctgagt	tactgggggt	catcactgtg	
ttctgatggc 3540	ccagctgtgt	ggaggccgcg	gtgcagcccc	atccaaggag	ccagggccct	
gggtctagcc 3600	gtgaccagaa	tgcatgcccc	ggaggtgttt	ctcatctcgc	acctgtgttg	
cctggtgtgt 3660	caagtggtcg	tgaaactctg	tgttagctct	tggtgttcct	gaaagtgccc	
ccgggtctca 3720	ggcctcagaa	ccagggtttc	ccttcatctc	ggtggcctgg	gagcatctgg	

gcagttgagc 3780	aaagagggcg	attcacttga	aggatgtgtc	tggccctgcc	taggagcccc
	gctggggcct	gaagetgeee	tcgggtggtg	gagaggaggg	agcgatgaag
	ctgggcagga	agggtgagcc	cctgcaaggt	gggcatgctg	gggacgctga
	cagcagctgg	gtctgcagcc	tggtacccgg	cgggacttgt	ggttggggct
	caggagaggg	gctggcagga	gacaaggggg	actgtgaggc	agctcccacc
cagcagctga 4080	agcccaatgg	cctggctgtg	tggctctcag	ctgcgtgcat	aacctctcag
tgcttcagtt 4140	ctctcatttg	taaaatgagg	aaacaaacag	tgccagcctc	ccagaggtgt
catgaggatg 4200	aacgagtgac	catgtagcat	gggctgggtg	cgtgtcacct	aacatcacca
gcctttgcaa 4260	ggagagccct	gggggcctgg	ctgagtattt	cccttgcccg	gcccacccca
ggcctagact 4320	tgtgcctgct	gcaggccctt	gacccctgac	cccattgcac	ctgtctccac
aggagccgag 4380	gaggtgctgc	tgctggcccg	gcggacggac	ctacggagga	tctcgctgga
cacgccggac 4440	ttcaccgaca	tegtgetgea	ggtggacgac	atccggcacg	ccattgccat
cgactacgac 4500	ccgctagagg	gctatgtcta	ctggacagat	gacgaggtgc	gggccatccg
cagggcgtac 4560	ctggacgggt	ctggggcgca	gacgctggtc	aacaccgaga	tcaacgaccc
cgatggcatc 4620	gcggtcgact	gggtggcccg	aaacctctac	tggaccgaca	cgggcacgga
ccgcatcgag 4680	gtgacgcgcc	tcaacggcac	ctcccgcaag	atcctggtgt	cggaggacct
ggacgagccc 4740	cgagccatcg	cactgcaccc	cgtgatgggg	taagacgggc	gggggctggg
gcctggagcc 4800	agggccaggc	caagcacagg	cgagagggag	attgacctgg	acctgtcatt
ctgggacact 4860	gtcttgcatc	agaacccgga	ggagggcttg	ttaaaacacc	ggcagctggg
ccccaccccc 4920	agagcggtga	ttcaggagct	ccagggcggg	gctgaagact	tgggtttcta
acaagcaccc 4980	cagtggtccg	gtgctgctgc	tgggtccatg	cgtagaaagc	cctggagacc
tggagggagc 5040	cctttgttcc	cctggcttca	gtttcctcat	ctgtagaatg	gaacggtcca
tctgggtgat 5100	ttccaggatg	acagtagtga	cagtaagggc	agcctctgtg	acactgacca
cagtacaggc 5160	caggcctctt	tttttctttt	ttttttttg	agatggagtc	tcactctgtc
gcccaggctg 5220	gagtgcagtg	gtgtgatctc	agctcactac	aacctctgcc	tcctgggctc
aagtgattct 5280	cctgcctcag	cctcctgagt	agctgggatt	acaggtgcct	gccactgtgc
ttggctaatg 5340	tttgtatttt	tggtagagat	ggggtttcac	cgtcttggcc	aggctggtcg
caaactcctg 5400	acctcaggtg	atccacctgc	ctcagcctcc	caaagtgctg	ggattacagg
catgagccac	cacgcccggt	caggccaggc	ctcttttgaa	cactttgcac	accatgggtc

5460					
	ggggggtagg	tacagttgta	cagttgagga	cactgaagcc	cagagaggct
	cccagggtca	cacagcagga	tgtggcaggt	gtggggctgg	gcctggcagc
	ctttccagca	tagaaatctg	tgaaagcaga	tagtttgtcg	gtcggtaggg
gagactttct 5700	gagacccgcc	ccagcggctc	agagggtagt	agccaggggc	cttcctgggg
gctcataacc 5760	cagaacactg	aatgggaaaa	ccctgatgga	ggaggcgcag	tggagctgtg
ggtgccgatg 5820	ggaagtccca	gaggagctgg	gaggtcagta	geggtgetge	cctctgtgga
gcacttagtg 5880	ggcaccaggt	gtgtttccag	gttcatggcc	ctgggacctg	aagctcagaa
	cttgcccagg	gcacccgtcg	ggcagcggcg	ggcagaggat	ttgtgggctg
	gctcgtggcc	cagccctggg	ggttgtgagt	gtgctggccg	gggagctttt
	gactggtgtc	taggagccag	catgtcaggc	agcaggcagc	gggagtgcag
	gagcacagca	ggcagagggc	ggggctcgag	cagccatccg	tggaccctgg
	catgtgggag	agggctgctc	catggcagtg	gctgaagggc	tgggttgtgc
	gtggatgagg	gtaagaagtg	gggtccccag	gggctttagc	aagaggaggc
	gttgccagct	acagtgaagg	gaacacggcc	ctgaggtcag	gagcttggtc
	ctacatgggc	ctcggtgtcc	tcatctgtga	aaaaggaagg	gatggggaag
	ggcccctcct	agccctggtt	tcatgagtct	gaggatccca	gggacatggg
	tgacctgtga	ggtcgtgggg	tccagggagg	ggcaccgagc	tggaagcggg
	gctggccggc	tgggtcagac	acagctgaag	cagaggctgt	gacttggggc
	tcacccctga	gctgccaccc	caggatctgg	gttccctcct	tggggggccc
	gtcacctgtc	ctttgcatag	gggagccctt	cagctatgtg	cagaaggttc
tgctctgccc 6720	cttcctccct	ctaggtgctc	agctcctcca	gcccactagt	cagatgtgag
gctgccccag 6780	accctgggca	gggtcatttc	tgtccactga	cctttgggat	gggagatgag
ctcttggccc 6840	ctgagagtcc	aagggctggt	gtggtgaaac	ccgcacaggg	tggaagtggg
	ccaggggagc	ccccagggac	tctggtcact	gggcttgccg	ctggcatgct
	gcacttactg	acaccagcat	ctactgacac	caacatttac	aaacaccgac
	accgacattt	accgacactg	acatttacca	acactgttta	ccaacactga
	cactggcatc	taccaacact	gacatttacc	gacactgaca	tttaccaaca
	acactgacat	ctactgacat	tggcatctac	caacaccaac	atttaccgac

accaacattt 7200	accaacactg	aaatttaccg	acaccgacat	ttaccgacac	cgtttaccaa
	taccgacacc	gacatttacc	gacactgata	tttaccaaca	ctgacatcta
	catctactga	caccgatgcc	agcatctacc	aacaccgaca	tttaccaaca
	ctgacactga	tatctactga	cactggcatc	tactgacacc	aacatttacc
aacaccagca 7440	tctaccaaca	ccgacattta	ccaacaccag	catttaccaa	caccgatgtt
taccaacgcc 7500	gacgtttacc	gacgccagca	tctaccaaca	ctgacattta	ccgacaccga
catttaccga 7560	cactgacatt	tactgacact	gacatctact	gatactggca	tctaccgaca
ctgatattta 7620	ccaacgccag	catctactga	cactgatgtt	taccaacacc	gacatttacg
agcaccgaca 7680	tttactgaca	ccaatattta	ctgacatcaa	catttagcca	tgtgatgggg
gccggcttgg 7740	gggcaggcct	tgctcttggc	actggggatg	ctgcagagac	cagacagact
7800				actggacaga	
aaccctaaaa 7860	tcgagtgtgc	caacttggat	gggcaggagc	ggcgtgtgct	ggtcaatgcc
7920				aggggaagct	
7980				catgtttgat	
8040				aggcaccgat	
8100				tacaatactt	
8160				cgtaagatgt	
8220				gaggatcgct	
8280				ctgcactgct	
8340				aaaaagttaa	
8400				ccagaggcag	
8460				gtttttccat	
8520				cgggtttcag	
8580				agtggcctcg	
8640				cgtcccgtgg	
8700				ggacgcagcc	
8760				tttggcagct	
8820				tttgtttgat	
tgtttgttt	tgttgtcgtt	gctgttgccc	aggetggagt	gcagtggcgc	gateteaget

8880					
cactgaaacc 8940	tctgcctcct	tgggttcatg	ccattctcct	gcctcagcct	cccacatagc
tgggattaca 9000	agtgcccgcc	accacgcctg	gctaaatttt	gtatttttag	tagacagggg
gtttcaccat 9060	gttggtcagg	ctggtctgga	actcctggtc	tcacatgatc	cacctgcctc
ggcctcccaa 9120	agtgttggga	ttacaggcgt	gagccaccgc	gcccagcctc	tgttgagcat
attttgaggt 9180	tctcttggtg	ccagtgatat	gtacatgtgt	ccccatcgca	ccatcgtcac
ccattgaggt 9240	gacattggtg	cctctcctcg	gggtggatgc	ctccctctgt	ttccagcaac
ttctgaagga 9300	ttttcctgag	ctgcatcagt	ccttgttgac	gtcaccatcg	gggtcacctt
tgctctcctc 9360	agggctccca	ggggaggccc	gaatcaggca	gcttgcaggg	cagggcagga
tggagaacac 9420	gagtgtgtgt	ctgtgttgca	ggatttcaga	ccctgcttct	gagcgggagg
agtctcagca 9480	ccttcagggt	ggggaaccca	gggatggggg	aggctgagtg	gacgcccttc
ccacgaaaac 9540	cctaggagct	gcaggtgtgg	ccatttcctg	ctggagctcc	ttgtaaatgt
tttgtttttg 9600	gcaaggccca	tgtttgcggg	ccgctgagga	tgatttgcct	tcacgcatcc
ccgctacccg 9660	tgggagcagg	tcagggactc	gcgtgtctgt	ggcacaccag	gcctgtgaca
9720				gacagggtct	
cccaggcgag 9780	agtgcagtgg	cgcaatcacg	gctcgctgta	gcctcaatct	ccctgggctc
aggtgatcct 9840	cctgcctcac	cctctgagta	gctgggacta	cagacacata	ccaccacacc
cagctagttt 9900	ttgtgtattt	tttgtggggg	gagatggggt	ttcgctgtgg	tgcccaagct
9960				gcctcccaaa	
10020				gtggtaaaat	
10080				ggctgggcgt	
10140				tcacctgagg	
10200				aaaaatacaa	
10260				gctgaggcag	
10320				ccactgcact	
10380				aaaaatttta	
10440				tctctgctac	
10500				ccggcactca	
cccctctctc 10560	ccagcetetg	tcaaccacta	atctactttc	tgtctctggg	ggttcacttc

ttctggacgt 10620	tttgtgtgac	tggaatcctg	caatatgtgg	tecetgegtg	tggcttcttt	
	gtgttttcca	gattcaccca	cacattgtcg	cacgttatca	gaatctcatt	
	tgcagtgggt	taggcctgta	atcctaacat	tctgggaggc	caaggcggga	
	aggcaggagt	ttgagaccag	cctggccagc	ctagcaagac	cccagctacc	
	aaaagttaac	tgaacgtggt	ggtggtgggc	acttgtggtt	cccagctacc	
	aggtgggagg	atcgcttaag	cccaggaggt	caaggctgca	gtgagctatg	
	tgcactccag	cctggacaac	agagcaagac	cctgtctgaa	aaaaaaaca	
aaaaaaaaag 11040	ttcctttctt	tttgtggctg	gatgacatcc	cattgtatgg	ccacagcaca	
ttttgtttgt 11100	ctgtttatcg	ggtggtgggc	agtggtttcc	accttttgtc	tcctgtgaat	
aatgctgctg 11160	tgaacatttg	aattcaagtt	tttgtttgaa	cacctgttgt	gaattatttg	
gatatatgtg 11220	taggggtagg	attgctgagt	cctatggtaa	tgttaggttt	gacttactga	
ggaaccatta 11280	aactgttttc	aacagtggct	gcgccgttct	gcatccccac	cggcagtgtg	
tgagggttct 11340	gactttacct	cctcacaaac	gcttcttttc	catttaaaaa	aatattcagc	
caggtgctct 11400	ggctcacgcc	tgtaatccca	gcactttggg	aggccgtggc	gggcggatca	
cctgaggtca 11460	ggagttcgag	acgagcctgg	ccaacatggt	gtaaccccat	ctctaccaaa	
11520				teccagetae		
gaggcaggag 11580	aatcacttga	acccgggagg	cagaggttgc	agtgagccaa	gatcgcgcca	
ctacactcca 11640	gcctgggtga	caagagtgaa	actccatcta	aaataaaaca	aaaataaaaa	
11700				gtgggtgtcc		
11760				gtcccaggct		
11820				gagaaatgag		
11880				gagccgtctg		
11940				tgtagcccag		
12000				ttttgtccac		
12060				gtggtccaga		
12120				aggaaggaat		
12180				gcaaagtcag		
12240				gggggtcgca		
cccaggaact	acacttgctg	gggccttcgt	gtcacaatga	cgtgagcact	gcgtgttgat	

10200					
12300 tacccacttt 12360	tttttttt	ttgaggtgga	gtctcgctct	cttgcccagt	ctggagtgca
	ctcggctcac	tgcaagctct	gcctcccggg	ttcatgccat	tctcctgcct
	cgtagctggg	actacaggcg	cctgccaccg	cgcccggcta	atttttgtat
ttttagtaga 12540	gatgggattt	cactacatta	gccaggatgg	tctcgatctc	ctgacctcat
gatccgcccg 12600	tctcggcctc	ccaaagtgct	gggattacag	gcgtgagcca	ccgcgcccgg
cccgatttcc 12660	cactttaaga	atctgtctgt	acatcctcaa	agccctatac	acagtgctgg
12720			catggtgctg		
12780			caggcggagg		
12840			ggtaggacag		
12900			ggcttacgcc		
aagctgaggt 12960	gggtggattg	cttgaggcca	ggagttcaag	accagcctgg	ccaacatggt
gagaccccgt 13020	ctctactaaa	tatacaaaaa	ttagccaggc	gtgatggtgc	atacctgtaa
tcccagctgc 13080	ttgggaggct	gaggcaggag	aattgcttaa	acctgggagg	cggaggttgc
agtgagccga 13140	gatcccgcca	ctgcactcca	gcctgggcca	cagagtgaga	ctccatctca
aaaaaaaaa 13200	aaaaaaaga	taaaaagacc	aaccgaggaa	ttgaagtggg	ggggcgtcac
agtagcagaa 13260	gggggatcgt	ggagcaggcc	accctgtggt	catgcactgg	aagctcatta
cctgacgatt 13320	tggagctcat	cactgggggc	ctaaggagaa	tagatactga	aggatgagga
gtgatggcgc 13380	ggggcacggg	tgtctttggt	ggccagaact	tggggactgc	tggggtgcct
cactgcaggc 13440	cttctcagcg	ccctttatat	gcttacacag	gctgtttcta	agaggggat
acattgcata 13500	agcgttttca	gactacctca	tcatgggtcc	ctttctttac	cctctgtggc
cctggtggcg 13560	cactctctgg	gaaggtgcag	gtggatgccc	agacccgccc	tgccatccac
ctgcacgtcc 13620	agagctgact	tagcctcgag	attgctgctg	gcacctcctg	ccccgggaca
cctcggatgt 13680	gcccgtggag	atgctggctc	tgtgttttct	gctggagttt	ggtgcgtctt
ttcctcctgc 13740	aagtggccac	cgctcttggg	tatgtcctca	ggcttctgcg	agtcatggct
gcttctcagg 13800	tccttgccca	gcgccaggag	caaaccctcc	tggcactttg	ttcaggggtg
gatgcgccag 13860	tgttcctgct	gtggaccccc	atctcacatg	agggtcttgg	gcctgcaggc
	aacacccgct	gagtacgcag	tgtgtgccag	ctgtgtccca	ggcaatggcg
	ctgctgctgg	ggttgtggtg	gcttctgggg	actctgggga	cagctgaggt

gcaaggagcc 14040	acggctcctt	gaggatgcag	ttggactcca	ggtggaaggg	atggttgggg
gaggtataaa 14100	tggggtcagg	gaggagacac	atttggaaca	atgggaacat	ttttaagatg
ctatgtcggg 14160	aggcaacaag	gtggccaacc	caggtgctga	ggagcccaca	ccagccctgg
acgtgttttg 14220	ccgctcacct	ttgctgggga	gtggtgggag	agaggattcc	gttccacgtg
gtggtgtgcg 14280	cagctgggct	gtgtggagct	gggcgctagg	aggaaggtgc	tttctgcggg
gctagccggg 14340	ctctgccttt	gaacacaatc	aggctccagg	ttttcagcat	ccagtgcatg
agaggacttc 14400	acgggcagct	gtggctgatc	ccttgatgaa	ttgggagaag	aacaaaggtc
tatgaaatga 14460	ggtttcatgt	agatggcatt	agagacgccc	acaacagatt	tacagagtgg
agcggagacg 14520	gcggatgggt	ctgggaggcc	cctcctgctg	gccttgactg	tgacagctgt
cctgggaatc 14580	agcttccagg	ccgccccagc	agcctgactg	acacacacag	gggttttagc
cccatcctgc 14640	gaccagctgt	tgccatcatc	agtgacagct	gggagtggcg	gtggttccag
ccctgggcac 14700	cctccccacc	tgctggggcc	cacccagggc	agtcctgaca	cctacaggtt
gcttggagcc 14760	gcatccgagt	cctgccccac	cacgtgtgaa	gcccgagtgg	tegtgggetg
14820	attgcatccc				
ttttccagcc 14880	tcctgggcta	ggaattccag	tgttgtgctg	gctttgcccc	aggacacctc
cttagccctc 14940	ttcctgagtc	tagagccccg	ggggttggaa	gttctggccc	ctgggacacc
tgcagccaca 15000	ctcagcttct	cctgtgagcc	tccagcatgt	cccctcagga	ccaagccctc
15060	ctccccgccc				
15120	ctgcccttct				
15180	tgtgccacaa				
15240	gaggcccacg				
15300	cagcccagcc				
15360	tggaagccgg				
15420	ccagggaagg				
15480	tggcccttgt				
15540	catcatcacc				
15600	agagaccctc				
15660	aggacgtacc				
gacaggcacc	cctgactttt	gctaagtggg	tggaggtgac	atcacttaca	gcgggagtga

15720					
15720 tgggacaggg 15780	tctgttggct	gcactgtgct	cccagggatc	tggggagagg	ctatatccct
	actgcagagc	tgtgtgtgtt	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg
	tgtgtgtgtg	tttgcgtgcg	cgcacatgtg	tataagatct	ttttttatta
catgaagcaa 15960	gataactgtt	gctgtttcct	tttgggtttt	gtgttcaaca	gagtggggta
cttcttccct 16020	cagacaacag	aactctcccc	tttaaacacg	tgctgtcaga	gggtgggtct
tgggctcatg 16080	tctgtttgca	cagccgagtc	agaggaaaca	cagggttctt	cataaaaaca
16140		cagagtcagc			
16200		ctttgggatc			
16260		gtgctggtca			
16320		agctcggaga			
16380		tcagacacag			
16440		caggagtcga			
16500		tgctcaagct			
aaaaaaaaa 16560	gccaaaggag	gtttcatgac	ccatgaaaat	tatatggaat	tcaaaaaaaa
16620		tttcagtgtc			
16680		gcagtgctat			
16740		ctcagcctcc			
16800		ttaattttag			
16860		ggcctcccaa			
16920		ttcactgata			
16980					gaggctgggc
17040		ctatgatcat			
17100		tatatattta			
17160		tctgaggtgg			
17220		tcactacact			
17280		aaaaacatgt			
17340					gaaaatattt
tctatccttt 17400	acaaaaagt	ttgctgacct	ctgtcctgga	aaattcatct	cccaagttct

cttccggcac 17460	tggcgttcct	gggtgtccta	aatttggccc	ctgttatttc	tgaactctgt	
	ttccctccca	ggagccagga	caggcacgtt	ctctgcatct	tgtcccctga	
cgcccagagg 17580	cttggctcgg	ctcaggcatt	cttggaaata	tctggctcca	ggaaaggcag	
aggcctcctg 17640	agtcagccca	gagggaacct	gccccaggtc	tgggggaggc	ctgacccagc	
agagtggctt 17700	ttgccgatgg	gttgggccgg	tcaagatgtg	ctgaaagttg	tecteagaag	
gccactttgg 17760	gattccttcc	tccagtatta	gagcaactga	gagctgctca	ttgcaagcct	
gatgttttcc 17820	cagttggccg	ggtccaccgg	gtgccctggg	attctgggat	ctgggtggaa	
	ttgggggagt	gtcctgggtt	ctggaatcca	ggtggcaagt	ggtgaggttc	
agggagtggc 17940	ttctgagcca	ccataggggt	ctctgtggga	ggetetgeee	atccaggaga	
ttccgcaggc 18000	cctgccggcc	cagagccagc	gtcttgcgct	tgccgaggct	acagccagcc	
ccagccgggt 18060	ggaacagccc	gtcgcctcct	ctcactttgt	tttggggcca	cctgggagtg	
tggagcaagg 18120	gtagagaggg	aggaagtggc	tgccggccgc	tgcccagcac	ccttgtttgc	
cttgggccct 18180	ctgtgggctc	ctttttattg	ctcttcaatg	aagccaggga	aatggacttc	
cttgcctcac 18240	ttcagttcaa	catgtctgga	agtttggtat	taaaattaag	aaagtgtgga	
aatagagcaa 18300	gaagagaaaa	atctctccaa	gagataatag	tgacctctga	gctgggcgcg	
gtggctcacg 18360	cctgtaaatc	ccagtacttt	gggaggctga	ggcgggcaga	tcacctgagg	
tcgggagttt 18420	gtgaccggcc	tgaccaagat	ggagaaaccc	cgtctctact	aaaaataaat	
aaataaataa 18480	ataaataaat	acaaaattag	ccaggcatgg	tggcgcctgc	ctataatccc	
agctaaggca 18540	ggagaatcgc	ttgaacctgg	gaggcaaagg	ttgcagtgag	ccaagatcac	
gccattgcac 18600	tctagtctgg	gcaacaagag	tgaaactccg	tctcaaaaaa	aataaataaa	
taaaaaataa 18660	aaatagtgac	ctctggccag	gtgtggcagc	tcatacccgt	aatcccagca	
ctttggaagg 18720	aaggccgaga	tgggcagatt	gctttagcac	aggagtttga	gaccagectg	
gccaacatgg 18780	tggaacccca	tctctacaaa	aatagaataa	aatttaagag	gtaatagtga	
ccttttggta 18840	gatcgaaacc	tggattgctt	tctttttcta	aatgctgatt	cttttctttg	
tggtgtttgt 18900	gttctgtgcc	gatgtccctc	ccccagccct	gttattgtga	gtggaagaag	
gggaaagggt 18960	tegecegeta	ctgtgagccc	ctcctctcac	gctgggtgtc	cttggagaag	
cctgcacttc 19020	ttcattgtac	gccagggctg	ggtccctccc	tggagtggtt	ctgtgctgct	
gggatggggc 19080	caacccctca	gatgttttct	gagtgtcaca	cacaggtgtg	tgcattcatg	
gcctttgcgt	gtcttcctgt	tgtggaggca	aaaatgtgaa	gaaccctaga	tgattttggg	

catcacctgc	tgttcattgc	acaccggagc	atccaggcat	gggtggagag
caggcacggt	cgcaggggct	ggtctaacca	tgttcccgcc	cgcctgctcg
ctgttgggag	ctgttatcat	gataccatac	ctgggccctg	ggctatccga
attgctccag	gttggggcca	ggccgttgtt	tgctgttttg	ttgtttcttc
gccactgggc	taatctgagc	ccctcagtta	caggtggaga	aactgagacc
caaggacttg	ccgaggaccc	agagcccctt	gggggcagag	ctgaggcggg
tgtcactgct	ctatcagctg	yggacgtggc	accctagtga	aaacaccatg
	caggcacggt ctgttgggag attgctcag gccactgggc caaggacttg gggtcccaga atctcacct gctagctgcg tgtgccagg agtgctagga catccaacaa ttttgccacc gtagcaggag gagagccgga caggctcatg caggtgttt tcagcattga aagcatctga cctgaccca cgttgctcat gttgctcat ttgctcat ttgctctt	caggcacggt         cgcaggggct           ctgttgggag         ctgttatcat           attgctccag         gttggggcca           gccactgggc         taatctgagc           caaggacttg         ccgaggaccc           gggtcccaga         gcttccagtc           atctcacct         gtcacccagg           gctagctgcg         ttccagcgat           tgtggccagg         ctgatctcga           gttggccagg         ctgatctcga           agtggctagga         tacaggctg           catccaacaa         cagatgacgg           gtagcaggag         gcctgtggaa           gagagccgga         gaacttgga           caggttttt         taccttgaca           caggttttt         taccttgaca           caggtatcta         gcgggaaatg           ccctgaccca         gcgggaaatg           ccttgctcat         actgcccagg           cttgctcata         actgcccag           ttgctctgtg         tggtgggtgt           attgctcata         gcctgcagtg           ttgctctgtg         tggtgggtgt           attgctcata         actgccagga           ttgctctgtg         tggtgggtgt           attgctaatt         gcctgcagtg           ctgctgcagtg         tgctgcagtg	caggcacggt         cgcaggggct         ggtctaacca           ctgttgggag         ctgttatcat         gataccatac           attgctccag         gttggggcca         ggccgttgtt           gccactgggc         taatctgagc         ccctcagtta           caaggacttg         ccgaggaccc         agagcccet           gggtcccaga         gcttccagtc         cccttcccgc           atctcaccct         gtcaccagg         tctcctgcct           gttggccagc         tgccagctc         gttttttt           gttggccagg         ttacaggctt         ggatcacact           agtgctagga         ttacaggctt         ggatcacact           catccaacaa         cagatgaccg         aagtcttgt           gtagcaggag         gcctgtggaa         gcttgcctt           gtagcaggag         gcctgtggaa         gcttgcctt           gagagccgga         gaacttggat         gttgcacta           caggttttt         tacctgaca         gttgcacta           caggtgtttt         tacctgaag         gtatttta           cactgacca         gcgggaaatg         gtccagacta           cactgacca         ggtgggaaa         gtccagaca           cgttgctcat         aactgccca         gtccttaca           cgttgctcat         aactgccca         gtccttaca <tr< td=""><td>catcacctgc tgttcattgc acaccggagc atccaggcat caggcacggt cgcaggggct ggtctaacca tgttcccgcc ctgttgggag ctgttatcat gataccataa ctgggccctg attgctcag gttggggca ggccgttgtt tgctgttttg gccactgggc taatctgagc ccctcagtta caggtggaga cagggccctg cagggacctg ccgaggacct gcggggccag gggtcccaga gcttccaga ccggggcccg ggggccccaga gcttccaga ccgggggagagagggggggggg</td></tr<>	catcacctgc tgttcattgc acaccggagc atccaggcat caggcacggt cgcaggggct ggtctaacca tgttcccgcc ctgttgggag ctgttatcat gataccataa ctgggccctg attgctcag gttggggca ggccgttgtt tgctgttttg gccactgggc taatctgagc ccctcagtta caggtggaga cagggccctg cagggacctg ccgaggacct gcggggccag gggtcccaga gcttccaga ccggggcccg ggggccccaga gcttccaga ccgggggagagagggggggggg

gccgggcgcg 20880	gtggctcacg	cctggaatcc	cagcactttg	ggaggctgag	gagggtggat
cacttgaggt 20940	cagaagttcg	agaccagcct	ggtcaacatg	gtgaaaccca	tctctactaa
	attcgccagg	tgtggtggcg	ggtacctgta	atccgagcta	ctcgggaggc
	gaatcgcttg	aacctgggag	gtggagcttg	cagtgagccg	agatcttgcc
	agcctgggca	acagagtgag	acgctgtctc	aaaatctcaa	acaaacaaac
	caaacaaaca	aagcgtcatt	tatccagcac	ccctggggaa	ccatgctacc
	tggtacctgg	caaggtgcag	gtgaagttgc	tgctcttggg	cattgaaccc
	gggcagctca	ggccccaggc	agggtccggg	ttggctctcg	ttggtgtggc
cctggcccat	ccagacctat	atttctgccg	tcctgcaggt	gatcaatgtt	gatgggacga
	cctcctggag	gacaagctcc	cgcacatttt	cgggttcacg	ctgctggggg
	ctggactgac	tggcagcgcc	gcagcatcga	gcgggtgcac	aaggtcaagg
	cgtcatcatt	gaccagctgc	ccgacctgat	ggggctcaaa	gctgtgaatg
	cgtcggtgag	tccggggggt	cccaagccat	ggctcagcca	tgcagacttg
	aagtgacggg	tccatgcctg	ggcataagtg	ttgagctcag	gtgccccgac
	gcaggacagg	aaaggtgaca	gtatctggcc	aaggacagat	gggaagggac
	gattagggag	tggttatgga	ctaggaatgt	cggtaacaat	ggttagaaag
	ttgttgagca	cctgctgtgt	gcccggccct	ggccgggagc	cttcgtgccc
	cgtctgcaaa	tgtagttcct	tgccctactc	gcactgggga	gcaggacgca
	tctcacaggt	gccaagctca	ggactccctc	ctgggtctgc	ctgggctggg
	tgcccctgtg	gcccacgcat	gtgcaccttc	cacctgaaag	ccaggatctt
	cccgaggagg	tegttgtetg	gcacaatgat	ttgtctcttc	ctgaaaaggt
	cactggagag	agcagcatcc	aggtgcggca	gggacaggcc	tggggctcgc
22140 gggcagggac 22200	tctgtgtcct	gccggggtcc	cacactgcac	ctgcttgtca	gaggcactca
gtcaatcttt	gctgatgaag	gatgagagga	cagaggacgt	gatgcttgct	gctgcattgc
	gggtgagatg	cccgggttga	ctctgctgcc	cgtcgggtgg	atgtgatgtc
	ctttaaaata	cgagggagct	gggaattgag	ggagcaggtt	ggggcagaaa
	gtggaagcct	ggagctgagg	cagtgtgggc	gacccctgga	gcagtgagtg
	ggccttcatc	gcaccctgca	gtcctcatgt	aggggatgcc	atccatgaat
22500 ttagttttcc	cagcctcctt	taaaaacgcg	ttcatgctgg	ggccggggca	gtgcagtggc

22560					
22560 tcacatctga 22620	aatcccacca	ctttgggagg	ccgaggcggg	tggatcatga	ggtcaggaga
	cctggctaac	aaggtgaaac	cccgtctcta	ctaaaaatac	aaaaaattag
ccgggtgcgg 22740	tggcgggcgc	ctgtagtccc	agctactcgg	gaggctgagg	caggagaatg
gcgtgaaccc 22800	gggaagcgga	gcttgcagtg	agccgagatt	gcgccactgc	agtccgcagt
ceggeetggg 22860	cgacagagcg	agactccgtc	tcaaaaaaaa	aaaaaaagt	acaaaaaaa
aaaaattagt 22920	ctgggtgtgg	tatcacgcgc	ctataatctc	actactcgag	aggctgaggc
ggagaattgc 22980	ttgaacccag	gaggtagagg	ttgtagtgag	cccgtatcgt	accactgccc
ccacctggg 23040	caatagagcg	agactctgtc	tcaaaaagaa	aaaaaaaaa	agaacattta
gccaggtgt 3100	ggtggctcat	gcctgaaatc	ccagaacttt	ggaagactga	ggcaggagga
cacttgagc 3160	ccagaaattt	gagagtgtct	tccctgggca	acatagagag	acctcatctc
caccagaaaa 23220	aaaaaaatta	gcccggcatg	gtggcatatc	cctgtggtcc	cagctactta
gggggctgac 23280	gtggcaggat	cacctgagtc	tggaggcaga	ggttgaagtg	agctgagato
23340		gggtgacaga			
23400		catggaaggt			
acaaaaaata 23460	aaccccagag	ataagacaaa	agggtgcctc	catgggggtg	tgatttaaag
tgagaaatt 23520	gggcttcttc	cccctcccct	ctcaccccgt	ggtttgctaa	aggagatggg
aaaaggatt 23580	ctttttttgg	ctgaaatatt	taacactaaa	ttaaagccaa	ttttaacago
23640		ttaacagact			
gtgaaaaaga 23700	ggcagctttg	gccatgctgg	gccaatgtga	gttttcaggg	ttgctgggaa
23760		ggcctagctg			
23820		tgaggcgttc			
23880		ctggcactct			
23940		tgcactttag			
24000		atggagtgag			
24060		gtcagagccc			
24120		cattgccagg			
24180		aaagctgtgc			
caggtgaaag 24240	gtgcgtgtgt	gtttgagggt	ttagcctggc	caacccagcc	atgaggtcgg

acctgacctg	ggggtgagtc	ctgagctcgg	cacccctgag	ctgtgtggct	cacggcagca
	ggcttggccg	cacccctttc	cctgctgggc	tgttgatgtt	tagactggag
	cgcttccagg	aaccaacccg	tgtgcggaca	ggaacggggg	gtgcagccac
	tcacacccca	cgcaacccgg	tgtggctgcc	ccatcggcct	ggagctgctg
	agacctgcat	cgtgcctgag	gccttcttgg	tcttcaccag	cagageegee
	tctccctcga	gaccaataac	aacgacgtgg	ccatcccgct	cacgggcgtc
	cagccctgga	ctttgatgtg	tccaacaacc	acatctactg	gacagacgtc
	tagcgtgggc	cagaacgtgc	acacaggcag	cctttatggg	aaaaccttgc
	gcctcaaagg	cttcagacac	ttttcttaaa	gcactatcgt	atttattgta
	agctaatcaa	atatgagcaa	gcctatttaa	aaaaaaaaa	gatgattata
	ccggtagaca	cacataaggg	cttttgtgaa	atgcttgtgt	gaatgtgaaa
	ccgttgagct	tgacttcaga	caccccaccc	actcccttgt	cggtgcccgt
	gactctttct	tcatttatag	tgcaaatgta	aacatccagg	acaaatacag
	tttttttt	tttgagacag	agtcttactc	tgttgcccag	gctggagtac
	gctcagctca	ctgcaacctc	cgcctcccag	gttcaagcga	ttcttctgcc
	gagtagctgg	gactacagac	atgcaccacc	acacccagct	aattttttt
	tagagacagg	gtttcatcat	gttggccagg	ctggtcttga	actcctgacc
	tgcccgcctc	ggcctcccaa	agtgctgaga	taacaggtgt	gagccaccgt
	ggaaaacttt	ttgccttcta	aagaagagtt	tagcaaacta	gtctgtgggc
	attctgtaaa	gaaagtttga	ttggtggctg	ggtgcggtgg	ctcacacctg
	actttgggag	gccgacgtgg	gcatatcacc	tgatgtcggg	acttcgagac
	aacgtggaga	aaccccgtct	ctactaaaaa	tacaaaaaaa	aaattaaccg
	cgcctgcctg	taatcgcagc	tactcaggag	gctgaagcag	gagaattgct
	aggcggaggt	tgtggtgagc	tgagatggca	ccattgcact	ccagcctggg
	gaaactccgt	ctcagaaaaa	aaaaagtttg	attggtgtaa	ccaaagcgca
	gattgtctgt	ggcagctttt	gttctgccga	gatgagttgt	gacagatctg
	aaagcctaaa	acatgtgcca	tccgcccctt	tacagaaaaa	gtgtgctgac
	aagtattgga	caactacaat	gtttgctcat	ttattattct	atgatttgtt
	tgttgttgtt	gttgttgttg	agatagggtt	tccctctgtc	actcaggctg

25980					
	gtgtaatctc	agctcactgc	agcctcgacc	tcctgggctc	tagtgatcct
ctcatctcag 26100	cctccctagt	agctgggact	acaggcacac	accaccactc	ctggctgatt
ttttttttt 26160	tttttttt	ttgtggagac	agggtttccg	catgttgccc	aggctggttt
caaactccta 26220	ggctcaaaca	cccacctcag	cctcccaaag	tgctgggatt	acaggcgtga
gccaccatgc 26280	ccagcctatt	ctactgtttg	tattacatag	ctttaaaaga	ttttttatga
ctttaagtca 26340	caagggttct	ttgtagaaaa	aaatatatat	ataggaaagt	ataaaaagaa
agtaaaaatt 26400	gtccataacc	tctccagcca	gagacgaccg	ttgctgacac	ctcagcatat
tgcctttaag 26460	tctttttct	ctaagatagc	atttctcttc	atcacagtca	tatgctacgc
agaattctgt 26520	atcctgattt	tttcacttga	cattacaaca	ggtatttgat	ggcgctgtga
caaactcttt 26580	ggcacaatct	tttaaatgta	tgaaatactc	cactgcacag	atgtttgctt
ttaggcttaa 26640	ctgttctttt	attttgcgtg	tgctggttac	agccgggcac	agtggctcat
gcctgtaatc 26700	acaacacttt	gagagggtga	ggcaggagga	tcacttgagc	ccagaagttt
gagaccggcc 26760	tgggcaacat	agtgagaccc	catctctaca	aaaaactttt	ttaataagtc
gggcgtagtg 26820	gtgcatagct	gtagtcccag	ccaccaagga	ggctgagttg	ggaggattgc
ttgagcccca 26880	ggaggttgat	gctgcagtga	cctgagatta	ctccactgta	ctccaacctg
agcgacagag 26940	caagacttgt	ctggggaaaa	aaaaaaaaa	aatatatata	tatatata
tatatataca 27000	tatatacata	cacgcacaca	cacataatat	aaaaatatat	atttataaat
atataatata 27060	taatataaaa	atatatattt	ataaataaaa	tttataaatt	atatttataa
gtaaatatat 27120	aatatataat	ataaaaatat	atattatata	atatataata	aaatatataa
tataaaaata 27180	tatatttata	aataatatat	aatacatact	tataagtata	tatttaaaat
atatgtaatg 27240	tatattttt	aatgtatgat	atataatata	catttataaa	tacacattta
tattatttta 27300	tataaaatat	atataaaatc	tccaagttgc	tttttccaaa	aaggtgtctt
gctgcatttc 27360	aaacattcat	ttaaaaactt	gaatgctggt	gatctggtcc	agaatgtgtt
27420		caagcatctc			
gcctggcgtg 27480	gtggctcacg	cctgtaatct	cagcactttg	ggaggctgag	gcaggtggat
27540		agaccagcct			
27600		aggcgtggtg			
ggctaaggct 27660	ggagaatcgc	ttgaacccag	ggggcagagg	ttgcagtgag	ccgagatcgc

accattgcac 27720	tccaggctgg	gcaagaagag	cgaaactccg	tctcaaaaaa	aaaaaaaag
atgctggttc 27780	ctaaaatgtg	gcccttttcc	tectcacetg	ctgccagacc	atcagccgcg
	cgggagctcg	gtggagcacg	tggtggagtt	tggccttgac	taccccgagg
	tgactggatg	ggcaagaacc	tctactgggc	cgacactggg	accaacagaa
	gcggctggac	gggcagttcc	ggcaagtcct	cgtgtggagg	gacttggaca
	gctggccctg	gatcccacca	aggggtaagt	gtttgcctgt	cccgtgcgtc
	cctcgtatga	gacagtgcgg	gggtgccaac	tgggcaaggt	ggcaggctgt
	ctcagtgatt	agagctgtac	tgatgtcatt	agccttgatg	gtggccagga
	cctcagaggt	catggagttc	cttcgtggag	cgggtgctga	ggctgtatca
	tggctgcttt	cacctgggcc	gtctcaccga	agtgtccatg	gagcctgcgt
	tctgtgtcga	ttttacagat	gcagaaacag	gctcagagaa	accgagtgac
	tcacataccc	agttagagca	gagetgggee	aggaagtgct	gtctcaggct
	tctccttgct	ttgcactctt	gccaaaacca	tgatccagaa	ctgactttga
	cctcaggctc	ctccgaaatg	gcctcttgga	ggctgctgag	ccacagctta
	cgagaggcaa	atgtgctttg	agctgccagg	cgtcctgggg	gccctgcctt
	ttcagacagg	ccccagatgt	gtggggcgtc	tttctggact	tgagttttct
	gtggacacag	tgctcacccc	ttaaagcacc	tgtgatgtgt	gcagcagccc
	tgtcgcctgt	tctgctaggg	aaggaaggaa	gacttcagga	tggcaggaca
	gtccaggttt	tagagcaagg	gcaggtcaaa	cttagaaaat	tctggaatga
	ttectettet	ggatctgcta	aaagaagagg	gaaggaggg	ctgctggggg
	agccgagttt	acatccggat	cccgcaaggc	ctcccctgcc	ctgaggtctt
	gtgcttgtgt	ccatcctggt	ttctgccgtg	tccccaacat	ccggccaagc
	gttccagcac	acactcaccc	tgtctgtgca	cctgtttttg	tgtccgtaag
	ctcaccttac	gagtgagcca	ctgtgggaat	tcagggaggt	ggcgcagtga
	agggatatgt	gtgtggcagg	ggtcgagggt	ctcgcccttc	cctgcttcct
	ttctccagga	cggggagggc	tgagctgaag	aggtggggac	agttgcgtcc
	cactgtcctg	cggtgagagc	agactcactg	agcctgccct	tctcccttgt
	tacatctact	ggaccgagtg	gggcggcaag	ccgaggatcg	tgcgggcctt
	accaactgca	tgacgctggt	ggacaaggtg	ggccgggcca	acgacctcac

29400					
	gctgaccagc	gcctctactg	gaccgacctg	gacaccaaca	tgatcgagtc
gtccaacatg 29520	ctgggtgagg	gccgggctgg	ggccttctgg	tcatggaggg	cggggcagcc
gggcgttggc 29580	cacctcccag	cctcgccgca	cgtaccctgt	ggcctgcaag	ttccccaacc
tggcaggagc 29640	tgtggccaca	cccacgactg	cccagcagcc	tcaccctctg	ctgtgggagt
tgtccccgtc 29700	cacccctggg	tgcctttgct	gcagttatgt	cgggagaggc	tctggtgaca
gctgtttcct 29760	gtgcacctgc	tgggcactag	gtcccagcta	atccctgtgc	caggactcta
atttcaccct 29820	aacacacatg	gtggttttca	ttgctgggga	agctgaggcc	tgagcacatg
acttgcctta 29880	ggtcacatag	ctggtgagtt	caggatcccc	cagagatacc	agggccagca
ctcgatcccc 29940	acccagccct	gaaccccacc	atgtgctggg	attgtgctgg	gagtgtccac
acgcctggga 30000	ccccagggct	ggtgctctca	teteettttt	ccagatcatg	agaatgaggc
tcagggaagt 30060	ttgaaaaaaa	cctatcccaa	gtcacacagc	aacaggagca	ggatttgaac
ccagaaaagg 30120	ggaccgcaca	ctctgttctg	ctagagtagt	tagctgtcct	gggtgatatg
gcaggtgaca 30180	ggggcaactg	tgcttaacaa	aggaaccccc	atccccctg	ccaagttggg
agactagaag 30240	gtcaggggca	gaagctctga	agggccaggt	gcagtggctg	acacctctaa
tcccagcact 30300	ttgtgaggcc	aaggcgggca	gatgatttga	gcccaggagt	tcaagatcag
cctgggtaat 30360	gtagtgagac	gccatctcta	caaaaaaatt	ttttaaaaat	tagctgggca
tggtggttca 30420	tgcctgtagt	ccaagctact	tgggaggctc	aggtgggagg	attgcttgag
cccaggaggt 30480	tgaggttgtg	gtgagctgtg	atcatgccac	tgcactccag	cctgggcaat
agagtgagac 30540	cgtctccaaa	aaaaaaaaa	gaagaagaaa	aagaagctct	gaggctccaa
gtccccaggc 30600	accccttggc	ttgagggcag	acaagggagg	agagggtcac	ctgggcagcc
ctgacttttg 30660	tcccctggca	aagggacctt	cagtgacctt	ggccctagga	gagcctctga
gcacgtcagc 30720	catgtcgaac	cgctcaggaa	gggcagcaag	aatttggctt	ctgacctctg
cctctcctac 30780	tcgccatctg	cactgggtgt	ggttgtgccc	attttacaga	tgaggaggct
ggggcatcga 30840	ccagctgaat	gccttgtccc	aggtactgcg	taggcagagc	tggcagttga
30900				gacttgtgag	
aggtttgcac 30960	gtgacttcgt	gaccgtcacc	cagctctgca	gcacatcccg	tgacccagct
31020				agtcaccgca	
tgcctgaaat 31080	gattaagctc	attaatcacc	ccggagtgag	gacagactca	gatgaaaacc

agcaaaagcc 31140	ctggaaactc	atgtgaccct	gccaatgagg	gcggccatgt	gcattgcagc
	ctcctcggta	cgtgttttgg	acttaaacgc	tccggatgtt	tactgagtgc
	acatggaagg	cctggtctca	ttgctgtggg	agtgaaggat	gcacagccag
	atgagaacaa	gaacctggag	tctcgctgcc	tgggtggtaa	tcctggccct
	aactgtgtga	ctgtagccag	gtcacttaat	tttgctagat	cctgcctgcg
	tcttgctggt	tttccaaggt	ggccaaacac	tttaaggcat	tcatgtggtc
	agggttgaac	cctggctcac	cccgcagggc	gccgtgtgct	ctgtggcctg
	tgctgacacc	gtgcccgtgt	gtgttcatgc	aggtcaggag	cgggtcgtga
	tctcccgcac	ccgttcggtc	tgacgcagta	cagcgattat	atctactgga
	tctgcacagc	attgagcggg	ccgacaagac	tagcggccgg	aaccgcaccc
	ccacctggac	ttcgtgatgg	acatcctggt	gttccactcc	tcccgccagg
	tgactgtatg	cacaacaacg	ggcagtgtgg	gcagctgtgc	cttgccatcc
	ccgctgcggc	tgcgcctcac	actacaccct	ggaccccagc	agccgcaact
	gtgcctcatg	gtcccccgca	cctcactccc	tcgttagatc	aggctggttc
	cgctgaaagg	agcttctcat	ctggggttcc	tgggtgtaca	tagatggttg
	gcactgcaca	agctgcatga	tgctacctgg	gggtccaggt	ccaggctgga
	gcttcatcag	gacatagata	aatggccaaa	actcctcagc	tggaaggtcc
tgggcaggat 32160	ctttgggtgt	gaaaaccagt	cacaggggaa	gggtgcttgc	tcatactgcc
agcacagtgc 32220	tgagtgcttt	ccatagcgct	cgtttactcc	tcaagcctgg	agggtgggga
gtagcatggt 32280	cccatttcac	gtacaaggaa	cccgatgcac	agagaggtgt	ggcaacccat
ccaaggccat 32340	acaactgggg	tgggttgagc	cggggttgac	tgtggcaggc	tggctcaaga
	ctgaaccctt	gccaggcagc	ctggcatcag	ctcggggaat	ttttgccctg
acccttggaa 32460	gcaagtgggc	ctctttgttc	tcatgtcagt	gatgagaaga	gtgactttcc
tatggcccct 32520	ctggagtaca	ggtgtttcct	gttggcgggc	tcttccccca	tgacatcagc
agcgagctgg 32580	ttatgattcc	ctacgcagaa	cttgatagtt	tataaagctc	tttgtcatcc
aggccccgtt 32640	ggagtctcac	gcagacctgg	tcgcaggcgg	ggctggtctt	gcctgtccca
gctgcatgga 32700	tggggaactt	gaggcttgca	aaggttaagg	ggctgttcga	ggcccaggct
ggcaggagat 32760	gggcctgggc	cagagtctgg	gacttcccat	gcctgggctg	tctttggtcc
	catccctccc	tggggccatg	accttagaga	gccaaatgga	ggtgcaggta

32820					
acccacggca a	aggaggggtt	gccatgactc	agagtccccg	tcctgtggcc	ggcagtacct
ggtgcaacga c	ettggatttc	agaccagcca	ctgtagcccg	ctgacggtgc	gctcgaagtg
ccacagette t	gaagccagg	caggactcag	gccaggagac	tctgttagct	gttgagaggg
agaggccaac g	ggatgttctg	gttctgctag	agagctggtt	cttcggatcc	tggtaccagt
gcactgagag g 33120	gaggcccagc	ttgattctgg	ggctgccttg	tggtggcatg	tgctgctcac
tgacaccctc g 33180					
cactggtgca c 33240					
tacattccac c					
taaaaataaa t 33360					
aggctgaggc g 33420					
gaaactccat o 33480					
cccagctact c 33540					
gtgagcccag a 33600					
aaaaaaaata a					
tactttgaaa c 33720					
caagagacag c					
ccgcctgttg t					
ccacctgcag c					
aaatctgcca t 33960					
ctgcatggac t		_	_		
tgggtggatg g					
ctgtgggaag g					
tgcccctgtc c					
gcttcgatta t 34260					
tatatgtaga a 34320					
ggacttttgt of 34380					
gttaatccag g					
gtatatgctc t 34500	Leegaaaga	cacctatgca	adaltegeded	graaaaarga	cacaactcat

agggaaagcg 34560	gggccagggc	acagccctca	aaatctccat	caatgacatg	taagaaaaga
gaggaacctg 34620	ggaaatagca	aagtgccttt	tgcacattaa	atggttagct	atatcccaca
atactgtgca 34680	ttcgtaaacg	ttaatgctgc	aataaatacg	gcacttcacc	ttgggaagat
ctggagttgg 34740	cttatgagtg	tggaagggtg	tagcgcatga	gtttttgtga	aacactggaa
ggaggattgt 34800	gggaaatcaa	atggaaagtt	ctcaccccag	gcgtggagaa	gagtgggtca
tggccccagc 34860	agtgagccca	gggaggtcag	agacggaggt	gtgtgtgtgg	gtgtgaccct
gcgcagttcc 34920	ctgccggctg	tagttttttg	cattcgctta	atgtttctcg	tggaggaaat
tgtgcatgag 34980	caaatgtgaa	accgtgctgt	gctcaaattg	tcctaataca	tcattgcatt
ggaacagatt 35040	ggctttttt	tttttttt	tttttttt	tttttgagat	ggagtctcac
tctgtcacca 35100	gcctggagtg	cagtggcatg	atcttggctc	actgcaacct	ttgcctccta
tgttcaagtg 35160	attttcctgc	ctcagcctcc	tgagtaactg	ggattacagg	catgagccac
cgcggccggc 35220	cagatttgca	tttttgaaac	aactgctagg	ctgggcgcgg	tggctcacac
ctgtaatccc 35280	agcactgtgg	gaggccgagg	caggtggatc	acctgaggtc	aggggttcga
gaccagcctg 35340	gccaacatgg	tgaaaccccg	tctctactga	atatacaaaa	atcagctggg
tgtggtggcg 35400	ggtgcctgta	atcccagcta	ctcaggaggc	tgaggcagga	gaattgcttg
aacccaggag 35460	gcagaggttg	cggtgagccg	agatcacacc	attgcactcc	agcctgggca
acaagagcaa 35520	aactccatct	caaaaaataa	aaaatagaaa	aacaagtgct	gtagcggaag
tgagcacttt 35580	gcggagtcag	gcttgtgtgg	cctgttccac	aaatgatgtg	ctcacggtgg
cctcaggccc 35640	acctggagtc	tgcagcatgg	ggcacaacag	gttcattagt	gtagaattcc
aggacaggcc 35700	tggctcctaa	gcagccttct	tttacaaaaa	ctgcagagcc	cgcctgtatc
ctagcacttt 35760	gggaggccga	agtgggtgga	tcacgaggtc	aggagttcaa	gaccagcctg
gccaacatgg 35820	tgaaacccca	tctctactaa	atatacgaaa	attagctggg	tgtggtggca
cgcgcctgta 35880	gtcccagcta	ctcgggaggc	tgaggcagaa	ttgcttgaac	ctgggaggtg
gaggttgcag 35940	ggatctgaga	ccatgtcatt	gcactccagc	ctgggcaaca	gagcgagacg
ccatctcaaa 36000	aaaaaaaac	ctacagagcc	acacggcctc	tttctccacc	gagtgttggt
gtgggagctt 36060	gtgttattgt	ggtgaaatct	tggtactttc	ttgaggcaga	gagaggctga
gcgcctggag 36120	agactttcac	atgggtcgcc	atgtccgccg	teggtttege	tgttgtgctc
cccatctgaa 36180	ggctggtgcc	gtccagacag	gctggacgcc	cctttccacc	agatccttcc
tcccgcagca	gtttctagtt	acgttgtact	gtgaggtctg	tgtccttggt	tgatggcaaa

36240					
	attgaaattc	agagccatgc	ctggctccct	ggagcttctc	tcctgggcag
ctgtgatcat 36360	tgcctctgct	gtggtgtggg	tggtggaaat	ggattccttt	catcttgctt
gctacaggtg 36420	actgtcacgt	ggagtccttt	ggagagaggg	acgtgttaat	tgatggatgt
ggctcccatg 36480	ctgagaaagc	tcctgggcgt	acattgcctt	agagtttcat	tggagctgcg
ttcttttatg 36540	gtgtctgcta	ggcagaagtg	atgaagactt	ggaagaaaac	ccagaaggtt
ttccacttaa 36600	tttggaaaat	gtgcttttcc	cctcctgtgt	cttttgctaa	ggtccagcct
36660	ccccgctctg				
36720	atggtgtcta				
36780	ttttattgtg				_
36840	gtttttgaga				
36900	tcactgcagc				
36960	cgggactaca				
37020	gagacccgct				
37080	caccetecea				
37140	tttttttt				
37200	tatcaactca				
37260	cccgagtagc				
37320	gcagagacgg				
37380	gcccgcctcg				
37440	tagataacta				
37500	tggctcactg gtattttatg				
37560	gcagtccacc				
37620					
37680	agcccatttt				
37740	accatcactg cgcattgaac		-		
37800					
37860	gettetttea				
37920	gcttctttca	tytyacatyg	tyttetteaag	gereaterge	gitalageet

	ttccttcctt	aaagcctgaa	taataacccg	ttgtaaaggc	tgggcgcggt
	ctctaatccc	agcattttgg	gagtccgagg	tgggcagatc	acttgaggtc
	gaccagcctg	gccaacatag	tgaaaccctg	gctctactaa	aagtacaaaa
38100 ttagctgggt	gtggtggcgc	gcacctgtaa	tcccagttac	tcaggaggct	gaggcaggag
38160 aatcgcttgt	acccgggagg	cagaggttgc	agtgaaccaa	gattgtgcct	ctgcagtcca
38220 gcctgggtaa	cagagtgaga	cttcctgtct	caaaaaaaaa	aaaaatcatc	ggatggatgg
38280	tcttgttatt				
38340	ggccactatg				
38400					
38460	ttgtggtgtt				
38520	cattaaaatg				
ccagcacttt 38580	gggaggccag	ggcgggcgga	tcatgaggtc	aggagatcaa	gaccatcctg
gccaacatgg 38640	tgaaaccccg	tctctactaa	aaataccaaa	aaactagcca	ggtgtggtgg
	tagtcccagc	tacttgggag	gctgaggcag	gagaatggcg	tgaacccggg
	tgcggtgagc	cgagatcgct	tcactgcact	cgagcctggg	caacagagca
agactccgtc	tcacgcaaaa	ctctgtctca	cgcaagactc	cgtctcaaaa	aaaaaagag
	atgaaactgg	ccagccgcgt	aaagtttgct	gtgttgtttt	tgtgcccggg
38880 aggagtgtgg	ccagggtgtc	acgtcacaca	gtacacgttt	ctcagatggt	ggttctccag
38940 actgctgtcc	caaagtctgt	ttttgcatct	ggttcccaca	gacccaccct	ccacggtgag
39000 cctgattttg	gccagggtag	ctggaatctt	gcttgtcttt	cagcccggca	gctgtaccag
39060	acagctagtg				
39120					
39180	gtccacagct				
tccttcgtgt 39240	ccagatgaaa	gtgatgatgt	ctttgcagct	gcccagcaag	gctgtgtgtg
tgtgtgtgtg 39300	tgtgtgtgtg	tgtgtgtgtg	tggtgtgtgt	gtggtgtgtg	tgtgtgtatg
ggggagggag 39360	gcaccctttc	catctggggg	tgtgtgtgtg	tggggtgtgt	gtgtgtgtgt
gcgcgtgtgt 39420	gtggtgtgtg	gtgtgtgtgt	gtgtatgggg	gaggcaccct	ttccatctgg
	ctgggcctgg	ggaagacgct	tctttttatc	tacttagaga	ctttgtttta
tttgtatttt	tttgagacag	ggtctcactc	tgtcacccag	gctggggtat	ggtgatatga
	ctgcagcctc	ggcctcccag	gctgaagcga	tcctcccacc	tcagccttct
39600 gaatagctgg	gactgtaggc	gtgcgtcacc	atactgagct	attgttttt	ttgtttggtt

20660					
39660 ggtttaattt 39720	tttttgatac	agatggagtc	ttgctatgtt	gcccagacta	gtctcaaact
	agtgattctc	ccacctcagt	ttcccgacat	tctgggatca	caggtgtgag
ccactgctgt 39840	ctccctgttt	tattaactgc	tgaaagacct	agataaagaa	agtctgaaaa
gacttactat 39900	cagagcacca	tcctaagatg	attccctctg	actcaatgga	gagggaggg
agcttttcct 39960	tcaggcctgg	gtggcaggag	cccaggtgct	ccaggcccca	tttgccccag
gccaaatcac 40020	tcgggaactt	ggatgcagct	gtctttcagg	gtaacccaaa	ggaaccagat
40080	agtaggcttc				
ttcgaaggga 40140	tgctgtgtcg	gaggccccaa	aagcccaggc	tcatccctga	gatgcacagg
40200	cttaggcagc				
40260	ccttgagagt				
40320	ccccacactc	_			
40380	tctgtaccga				
40440	cctccccac				
40500	cctcacctgc				
40560	cccccaaact				
40620	aaagcttgag				
40680	tggatccctt				
40740	ctgggtgccc				
40800	aggctgttgt				
40860	agaggagaga				
40920	ggcctctgct		_		
40980	gggggtctcc				
41040	ggggtctccg				
41100	ctctctgagc				
41160	cagccggaca				
41220	cggggaagcc				
41280	caacgcggag				
tccaggcgtg 41340	cccgccgtgt	cttatgccga	atgccagcct	ctcacaggct	ggggagactt

tccacctggg 41400	gatccaatgg	gtggctttcc	agggtcccaa	aagcaaacac	aggtttttca
	gggaaagcag	aaagccccaa	ggggctggaa	ggggaaaggg	ggagctctgc
	caaggcagcg	ctggccgacg	ggagttgcag	ttgataggtt	ttgtatcatc
	ttgaaccctg	tgcagaaatc	ccttccacgg	catgggggct	gcctgttgac
	tccaccacag	ggageteetg	ggcttcttcc	tcccagaggc	ccccgacgct
	ggtcgtcaga	gcttctggtt	ggtgggaagg	cacccaggac	cttgaggtct
	aagccaggga	aagagggaga	ccgaaaccca	tgtgacatga	aactcaggct
ccaaactgag 41820	cacgggaacg	tttggggaca	ggagcgcgat	ggccttcctc	agatagctgg
ggggctggca 41880	tgaagacggg	agctacagcc	agcacaggtc	ctgggccggg	agcccagaga
ttgagccctg 41940	actctgtcac	ttactggcca	cgtgaccttg	ggcgggtggc	atagcctctt
ggagactcag 42000	tttcctcatt	ggtaggagtg	acggccacag	tggtgcggcc	tctgcagcac
acggggggct 42060	cggtgggcgg	aagccccggg	tctataaggc	ggctgtgcag	gagccagccg
agctggtctc 42120	ccaacagcca	gggctccggg	gtccttagca	gctgtggggg	gcctgcacct
gtttcccatg 42180	gctgctgtca	gaaattacca	gaagccaggt	ggctgagagt	aatggacact
tgttctctca 42240	cagttcctga	gggctgaagc	ccgagatcga	ggtgtgggca	gggccctgcg
ccctctgaag 42300	gctctgaggg	aacctttggg	cttctggtgg	ctccaggcac	cccttgactt
gtggtcctgt 42360	cactccagtc	tctctgtctg	gctgcacatg	gcgtggcctc	ttctgtacca
ttgaaggaca 42420	cttcagttgg	atttagggcc	taccctcacc	cattgtggtc	gtatcttgat
ccttcatgac 42480	atttgtaaag	accctgcttc	caaataagct	cacattctga	ggttctgggg
tgagcgggaa 42540	tttggagagc	attgttcaac	tagtatagaa	tgtgacctgt	cagcctcggg
	aggcaggggc	tttccacagc	ccagctgggt	gccctgggct	ccgtgctgtc
cgaggagacg 42660	ccatccccac	acccgtcctt	cacccgccac	cctcccgcag	gtacctgtac
ttcaccaaca 42720	tgcaggaccg	ggcagccaag	atcgaacgcg	cagccctgga	cggcaccgag
cgcgaggtcc 42780	tcttcaccac	cggcctcatc	cgccctgtgg	ccctggtggt	agacaacaca
	tgttctgggt	ggacgcggac	ctgaagcgca	ttgagagctg	tgacctgtca
ggtacgcgcc 42900	ccggggcctg	ccctaaccgc	agacacccgg	ccttcattgt	cagtaatggc
	acattgtccg	agacctgccg	tgagcccagt	gccgcgccag	gggctttgtg
	tttgtcctca	cactgacagc	tgtaggctgg	ggttctgagt	gagccccaca
	agaaaatgag	tctcagagag	ggtgagcgag	ctgcttgggg	ccccacagca

43080					
	caggactgca	gcctagcctc	tgccccagc	acctgcgcaa	gaagctgctc
tgctctggac 43200	tgtgttaggc	tgcgagggct	ggagagaaat	gagagttggt	gcttagagag
ggggcgcagg 43260	tececatgge	ttttcctctt	atgatgaggt	agatgggtga	agggagggc
catgcttgca 43320	ggggccagtg	accgaggccc	gccgttggaa	ctgatggcct	tcatcccgag
cccagcccag 43380	gtgggagcag	ggctttccga	gggcttgtct	tgggtcggcc	tgcttccagg
gactctgctg 43440	cagctcccac	ccctgtccaa	agcatggaat	ccccaggct	ccctggcagt
cctgtcaacc 43500	tetgteetee	caagctgagt	gtggggcaag	ttctggaggt	cagcactgct
caggggggcc 43560	cacgggctgc	ttgcaggggc	caaccgcctg	accctggagg	acgccaacat
cgtgcagcct 43620	ctgggcctga	ccatccttgg	caagcatctc	tactggatcg	accgccagca
gcagatgatc 43680	gagcgtgtgg	agaagaccac	cggggacaag	cggactcgca	tccagggccg
tgtcgcccac 43740	ctcactggca	tccatgcagt	ggaggaagtc	agcctggagg	agttctgtac
gtgggggctg 43800	gcagtggggt	gggcagggtg	gcctctaaac	ccgacccctg	gaggaggctg
gaggccagtg 43860	caagatcctg	tgtggcctca	gccaggcggt	ggtctctgcc	agatgccaac
tgttgcccgc 43920	tggggttcag	cgacatgtcc	gaatgtcccg	aggcctctga	ggttgttttc
ttttgccgca 43980	gaacaaatca	ccacgaacag	cgttttaaga	caacaccaac	tcttttttt
ttttttttt 44040	tgagtcagga	tcttgctctg	ttgcccaggc	tggggtgccc	tggtgcaaac
acagttcact 44100	gcagcctcga	cctctgggct	taattaagtg	aacaccttgc	ctcagcctcc
caggtagctg 44160	ggactacagg	tgggcaccac	cacacctggc	taatttttt	ttgtagagac
ggggtttccc 44220	catgttgccc	aggctggtct	gcaactcctg	ggcacaagct	atctgcctgc
tgtggcctcc 44280	caaagtgcta	ggattatagg	tgtgagccac	tggcctgaca	acacccacgg
attgtctctc 44340	agttctgtaa	ggcaaagtcc	aggcacagcg	tggctcacct	gggttctctg
ctcagggtct 44400	cacggggcca	gaatcaaggt	gtcaggaacg	ctgggccctc	agcggaggct
ctgtggagaa 44460	attagettee	ttgctcactc	agcaggtagc	agttgtggga	tcgaggttct
gttttctctc 44520	tggttattgg	tcggggacca	ctctcagctc	ctagaggcca	ccacaggtcc
ttgccccgtg 44580	gccctctctg	cctcagcagt	gggggctccc	tgcgtcagtc	cctcccacac
cttgagtctc 44640	tctgatttgc	ttctaaaggg	ccctgtgatt	cggctcagcc	acctttagat
taggttagcc 44700	tcccctttga	tagactccaa	gtcggctgat	taataacctt	aatcacatct
gcagaatccc 44760	ttctgccaca	taaggtcatg	acgccgtgct	ggggactggg	gtgggaaatt

acggggtcat 44820	ttaggattct	gcctgccact	gccttgctgt	gtcccagggc	ttgggggagg	
ggcctccaca 44880	gctgggacca	cagtccttcc	tcccctccat	ggtaaccatc	tgaggattac	
ttgagaccag 44940	cctgggcaac	atggtgagaa	cccatcccta	caaaaaatac	aaacaaaag	
ggaccaggct 45000	gggcttggtg	gctcatgcct	ataatcccag	cactttggga	gaccaaggtg	
ggctgatcac 45060	ttgaggttgg	gagttcgaga	ccagcctgcc	caacatagtg	aaatcccgtc	
tctactaaaa 45120	atacaaaaat	tagctgggtg	tggtggcagg	cgcctgtatt	cccagctact	
ggggaggctg 45180	aggtgggaga	attacttgaa	cctgggaggc	ggaagttgca	gtgagccaaa	
attacgccac 45240	tgcactccag	cctaggcaat	agagtgagac	tccgtctcaa	aaaaaaaaa	
gggccagggg 45300	tggtagtgac	aaagagaccc	tatcccaaaa	aaaccgaaca	ctgaatcctt	
gagactgagt 45360	aaggacactg	tgaaattttt	ctgggtgggg	cagggaacag	agcgtcttct	
gtcatttctt 45420	ccacctgggt	gtggtcagct	ctccctccaa	gctgcctcct	cttcttctca	
ttgtccgggt 45480	gttggacaca	tttggttaac	tggatagaat	aacgcgagtt	cccagggact	
tggtccattt 45540	gctattttat	tttattttat	tttattttat	tttatttatt	tatttattta	
tttatttatt 45600	tattgagatg	gagtttcgtt	tttgtcgccc	aggctggagt	gcagtggcgc	
gatctcggtt 45660	cactgcaacc	tctgcctccc	aggttcaagt	gattctccta	cctcagcctt	
ccaagtaact 45720	gggattacag	gcacccacca	ccataccagg	ctaattttt	tgtattttta	
gtagagacgg 45780	gttttcgcca	ttttgcccag	gctggtcttc	aactcctagc	ctcaggtgat	
ccacgcacct 45840	cggcctccca	aagtgctggg	attacaggca	tgagccacca	cgcctggcac	
catttgctat 45900	tttaattccc	atgtgtatta	gtgtcccacg	gctgctgtaa	caaatgacca	
caaactggat 45960	ggcttaaagc	aacagaaatg	gattccccca	atgtgctgga	gaccagaagc	
ctgcgaccaa 46020	actgttggga	gggctgtgct	tcctctgggg	gctccaggga	ggatctattt	
gttggccctt 46080	ccagtgctgt	gggtgccagc	gttccacact	tgtggatgcg	ccgcctcaac	
ctctgcccat 46140	cttcatgtgt	ccatctcctt	tgtgtctgcg	tctttacctc	ttcttcttgt	
ctgtgttgcc 46200	tcttataagg	acgtttgtca	ttgggtttag	ggcccaccca	aatcatccga	
gatgacctcg 46260	tcttgagatc	cttaacctgc	aaagaccctt	tttccaaaaa	aaggttatgc	
tcacagattc 46320	taggccttaa	gacatgggtg	tatctttctg	gggggcacta	tccaacccct	
tatacaatga 46380	aagacgggaa	gagggccagg	tgtggtagtt	cacgcctgta	atctcagcac	
tttaggaagc 46440	tgaagcggga	ggatcacttg	agcccaggag	tttacaagta	gctaggcaac	
atgatgagac	cccatttcta	caaaaagtga	aaaaaaaaa	aaaaaaaaa	aagccaggtg	

46500					
tggtggctca 46560	cacctgtaat	cccagcactt	tgggaggctg	aggcaggcag	atcacgaggt
caggagattg 46620	agaccatcct	ggctaacacg	gtgaaacccc	gtctctacta	aaaatacaaa
aaattatggc 46680	cgggcgcagt	ggctcccgcc	tgtaatccca	gcactttggg	aggccgaggt
gggtgaatta 46740	caaggtcaag	agatcgagac	catcttggct	aacacggtga	aaccccatca
agatcacaag 46800	gtcaagagat	ggagaccatc	ctggctaaca	cggtgaaacc	ccgtctctac
taaaaataca 46860	aaaaattagc	cgggcatggt	agcgggcgcc	tgtagtccca	gctgctcggg
aggctgaggc 46920	aggagaatgg	cgtgaacccg	ggaggcggag	cttgcggtga	gccgagatcg
ctccatgcca 46980	ctgcactcca	gcctgggtga	cagagtgaga	ctccgtctca	aaaaaaaaa
aaaaaaaaa 47040	aaaaaaagaa	aattagccag	gcacagtggc	aggtgcctat	tgtcccagct
acttgggagg 47100	ctaaggcagg	agaatggcat	gaacccggga	ggtggagttt	gcagtgagcc
gagatcatgc 47160	cactgcgctc	cagcctgggc	gatagagcaa	gactctgtct	caaaaaaaaa
agccaggcat 47220	ggtggtgcat	gcctgtagtc	ccagctactc	aagaggctga	ggcaggaggg
ttgttcgacc 47280	cacggagatc	aaggctacag	tgagccatga	tcgcaccact	gccctccagc
ctgggtgaca 47340	gagtgtgacc	ctgtctcaaa	gtaagtaaat	aggaggagag	acaagtgggc
agttcagact 47400	gatggtatgg	gcacagtaga	gactggtgca	gacaggctgg	cctgtgatgt
caagcaactt 47460	ctgtaattgt	ttccggcatc	catttgtgtg	tcaatttccg	tgtcagtagg
aagactctgt 47520	aggctgccaa	gaggaataag	tgggaggatc	ctcccagaga	ggccgggcct
gcaggagggc 47580	cagttctcat	gagttctcat	ttggccccta	ccctccaggc	tgtggttctg
aggtgggaga 47640	cagagcctga	cctctgtttg	tcttgttttg	tctttgcagc	agcccaccca
tgtgcccgtg 47700	acaatggtgg	ctgctcccac	atctgtattg	ccaagggtga	tgggacacca
cggtgctcat 47760	gcccagtcca	cctcgtgctc	ctgcagaacc	tgctgacctg	tggaggtagg
tgtgacctag 47820	gtgctccttt	ggggtgatgg	acaggtacct	gattctctgc	ctgctaggct
gctgcctggc 47880	atccttttaa	aatcacagtc	cctgtggcat	ccagtttcca	aagctgattg
tgtcttcctt 47940	tgccctcctt	tcttttctac	tatgtgcatt	cggtgctatg	aattttcctc
taagtactgc 48000	gtttcctgca	tctcacaaat	tttgttacat	tttcattttc	aggtagtttg
aatattttta 48060	cacttctcct	gagatgacat	ctttggctca	tgtgttattt	agaagtgttg
cttagtttct 48120	aaagagttgg	ggcttttcca	gctgtctctc	tgcaactgat	ttctaattta
	agtctgagag	cttattttat	atgatttctg	ttattttaaa	tgtgttgggt

gtggtgtttt 48240	tgttgttatt	gtttttgtgt	ctttttgttt	tgttttgctt	cgtttgtttt
	cagtgtcttg	ctctgtcact	caggctggag	tgcaatggcg	cgatctcagc
	ctctgcctcc	cgggttcaag	tgatcctctt	gcctcagcct	cctgagtagc
	ggtgcacgcc	accataccca	gctaattttt	gtatttttag	tagagacggg
	gttggtcagg	ctggtctcga	actcctgacc	tcgtgatccg	cccacctcgg
cctcccaaag 48540	tgctgggatt	ataggcgtga	gccactgtgc	ctggccatta	ggtgtgtttt
atcacccagc 48600	atcatgcagt	ttatcttggt	gaatgttctg	tgtactcttg	aaaagaatgt
ggattctgct 48660	gttgttgggt	ggagtgttcc	agaaacatca	attagatcca	gttggttaat
agtgctcatc 48720	aggttgtctc	tatccttcct	tcctgactgc	ctgcttgagc	tgtcagttat
tgacaggggt 48780	gtggagtctc	caactctaat	ggtggatttg	tttatttctc	ctagtagttc
tatcttttc 48840	tctccttcta	cccttgatcc	tcttctcccc	ctagggcttc	ctggtgttag
tggtgggaga 48900	gtggggtagt	gaagaacctg	gactttaggg	ccaaagaggc	cagggttcaa
atcctggctc 48960	tgtcacttcc	cagttgagtg	accctggctg	gtgcctgaat	ctctgtgagc
49020	tcctctgtga				
49080	actccacctg				
catgggtgtg 49140	gcagtagtaa	taaagtgacc	atctgtatcc	tcaccacagt	gaagcctgtc
cagggctttc 49200	tctcctatgc	ccccatgcct	ccaggtggcc	ttggatcctg	ttggttctgt
49260	gcgacctttc				
cagcagcaca 49320	cactggctgt	gcaccctttt	tttttttt	tttttttt	tgagatggag
tctcgctttt 49380	ttcgcgcagg	ctgaagtgca	gtggtgtgat	cttggctcac	tgcaacctct
acctcctggg 49440	ttcaagtgat	tttcctgcct	caccctccca	agtagctggg	attacaggct
cccaccacca 49500	cgcccggcta	atttttgtat	tttcagtaga	gatggtgttt	caccatgttg
gccaggatgg 49560	tcttgaactc	ctgacctcag	gtgatccgcc	cacctcagcc	tcccaaagtg
cagggattac 49620	aggcgtgagc	caccacaccc	ggagtgccgg	ttgtttttag	cagtttgtct
tgttcctgga 49680	gagactggct	cctgcccagg	agctcgggga	gtagggccgc	ggggtgctgc
ctcacacctc 49740	gagtttggcc	gtaagcagag	gggacatttt	gtgactgtcc	ccctcctgag
cttcccagca 49800	gcttttctcc	aagttacagc	ccaaaagctc	aggtggattt	gcaacccaac
ggtgtctgtg 49860	cacctcccac	tgatgcccga	actgccctgg	ccaagaaacg	gggccgtcag
aacgctgcac	taactgcagc	cttgggcctc	catgccagag	gccatgccct	tccatccacc

40020					
49920 accccctggc 49980	ctgggccctg	ggccctcctg	gctcgggaac	tccaggcccc	ttcctcacgg
	gtgtatttac	cgcacaggtg	cttgtcattc	tcttgtggcc	tcttctccag
	gaaggacagg	gcctcactga	ggtctcggac	atggaccctt	tgatagtggc
aggagccagg 50160	ctgggcaaga	ggcggccaca	gtcacctcag	cagtgccatc	accaccgcca
ttcagccctt 50220	ccctgagccg	ggcgcgcccc	tggctctggc	cccagtgtcc	cagttacagc
tcacaggagc 50280	ttgtggtgcc	cagcggctgc	ttctgattga	gagtcgaggt	cggaggcttt
gggaggctga 50340	gaggctgctc	ggtttcacaa	ctgctgaggg	agacttgggc	tccatctcag
50400	tgtcgccctc				
50460	agacatctgt				
50520	gctgagccca				
50580	ggccccctcc				
gtcatgggga 50640	aggcctgcgg	gttccaaaca	tccaaaggct	tgcgtgcagc	atgacagctt
50700	ttttttacct				
agtgaggcct 50760	gggccgattt	cccagcatcc	cctcctgagg	ccagcctctg	tttcctgtga
ttttctgcac 50820	aaagtgggag	ggaggagtcc	taggaaatgg	ggggccacct	cgaagcctag
50880	gcttctctgt				
50940	tattccctga				
ccgaggggca 51000	ggatggcctc	catggtcaca	cgtaggaagt	ggcctccacc	ctccgatgat
51060	ctccctttca				
51120	cttctgcagg				
ttgctatgcg 51180	cacgctggtc	accacagagg	cctggccctt	cttctgtagc	agtcccacac
ccgcaacagg 51240	tgtggctgct	gaccacctgc	tttctgcccc	tetggteetg	aggagggcgc
51300	caggcgtggc				
51360	gaatttccca				
51420	gattcccagt				
51480	gcagtgaatg				
51540	acaggagccg				
gggatgccaa 51600	accegegetg	agtccctctc	aacttctgct	ttgaagccca	gtcacgccat

tgcctgggtt 51660	ttgctgggcg	gggctgcgtg	tgatgttctc	ctctgtccct	cccccagagc
	ctccccggac	cagtttgcat	gtgccacagg	ggagatcgac	tgtatccccg
	ctgtgacggc	tttcccgagt	gcgatgacca	gagcgacgag	gagggctgcc
	cgccgcccag	ttcccctgcg	cgcggggtca	gtgtgtggac	ctgcgcctgc
	cgaggcagac	tgtcaggacc	gctcagacga	ggcggactgt	gacggtgagg
	caaggctctg	ccaagaccct	ggccctgccc	tccgggatac	gagcttgggg
	cctcacagga	gtaggggctc	tgaaaacctt	tgcttgcagg	gagattgcca
	ttaggcccaa	caaggaaaac	tctgcagttc	cacccatcct	gtcccaccag
gtagtgtggc 52140	ttgaaggcag	actgtgaggg	tctatctcac	cttcctgcat	taggtcagga
gtttcacaga 52200	aacctgaggc	acattcaggg	gtgggctgca	gaggtccatg	gctcacaccc
tggaaaatcc 52260	gcccccaaaa	gacagtgctg	tctccactga	ccagtctgtg	ggatagtgct
taagcctgag 52320	tggtttctat	caacatgtag	aatcaggagg	tataaagaga	tttgctcagg
catcctgggc 52380	cctctctgac	cagcaggatc	ttcctttaga	tcttgacagt	gaaacacatc
tcttctgtgc 52440	cccctgtgag	ttttctttca	ttcattcatt	cattcattca	ttcattcatt
cattcattcg 52500	agacagagtc	ttgctctgtc	acccaggctg	gagtgccctg	gtgtaatctc
ggctcactgc 52560	aacctctgcc	tccagggttc	aatcgattct	cctgcctcag	cctcccgagt
agctgggatg 52620	acaggtgcgc	accaccatgc	ctggctaatt	tttgtatttt	tagtagagac
agggtttcac 52680	catgttggcc	aggctggtct	cgaactcctg	acctcaggtg	atccgcccgc
ctcagcctcc 52740	caaagtgctg	ggattacagg	catgagccac	cgcgcccggc	ctgagttttc
cttttatgaa 52800	ggacctgctt	ggttggttgc	ctgccacatg	ttgtcagcac	catgggccca
ggactgctga 52860	ggagctgttg	atgccctcgc	tctcccagag	ccaccggctc	tgttagataa
ttcacatgca 52920	gtctggccac	tgtcctacgt	cctcattcac	aaagagcaga	catttcgtag
aagatgaggg 52980	cctgggagta	acctccctgc	atgtttttct	ataaaggcat	agtggttaag
tccttccagc 53040	tcattgacca	ttggagaatt	ttatggaggc	tgtagactag	gggctggtaa
actaagggcc 53100	caggggccaa	atccagcctg	ccacctactt	ttgtaaataa	agttttcttg
gtgcacagcc 53160	atgcccattc	attcatttgc	acaatgtctg	tggctgcttt	catgccaaaa
gcaagagaac 53220	tgagtggtta	tgctggagac	ctacggcctt	caaagcccca	gacctcacgt
ctggcccttg 53280	acagacagag	cttccccagc	cctgctgcgc	atcctggccc	agcatgtgct
gtgtgtgtga	tttcagcttg	caggagccgt	ggttaggaat	tgtccctgtg	ttggtccatt

53340					
	atgaaggagc	acctgaggcc	gggtagatta	tgaaggaaag	aggtctgtct
ggctcatggt 53460	tctgtaggca	gcaccagtat	ggcacccgca	tetgeteage	ttctagtgag
gtctcaggaa 53520	gctttgactc	atggtgaaag	tcgaagcggg	agcaggtgca	tcacatggtg
agagagggag 53580	caacggagag	agagagagag	cgcctctccc	tettgeeete	accttgagag
gagatgccag 53640	gctcctttaa	gtaaccagct	cccatgtgaa	ctcacagtga	gagcccattt
gctactgcgg 53700	agagggcacc	aggcatctgc	tcccatgacc	caaacactgc	ccaccaggcc
53760	ccttggggtc				
53820	ccatgctatt				
53880	gcagtggcat				
53940	tatcagcctc				
54000	tattttcaat				
54060	caagtgatcc				
54120	cccagtgagg				
54180	cccctcgtcc				
54240	acgccggttc				
54300	aatcatccca				
54360	cgggggcagg				
54420	cctctgggtg				
54480	ctccctggcc				
54540	gggttgtgct				
54600	gccccactc				
54660	ccaccaacct				
54720	cacagtaggc				
54780	gccctggcag				
54840	ggagactgta				
54900	gtttggagtc				
54960	cctctctgag				
ttccggtgtg 55020	cgagcggcca	gtgtgtcctc	accaaacagc	agrgegaete	erreecegae

tgtatcgacg 55080	gctccgacga	gctcatgtgt	ggtgagccag	cttctggcac	ggggaagggg
	gggttcccc	aggaacgtgg	agtttagggg	aggagacgtg	cctttccagc
ggggctgggg 55200	gctgtgtggg	agactcaggc	ggctgggagg	ctccttgcgg	gaggcaggga
agcctttccc 55260	agggcagcgg	ccaggaggac	agactgtgag	ctgtgggctc	ggcggctaca
gagtetgeet 55320	cagtgggcgg	ggctgatggt	gtccaggtgc	ctgcagcacg	cacccaccca
cgggaccttg 55380	ctgagcagcg	tctgtcaggc	agcaagatta	cccgagggct	gcagtggtcc
tgttccctgg 55440	cagettactg	tctggctgag	gaggagtgat	gttcacatat	gcacacatgt
catgtgcaca 55500	cacatgtaca	tgacaacatc	ccacatgctc	ctcaaatagc	atgacctgta
cagtcacgga 55560	tatagggcct	aggggatagg	aggccaagac	agtcagggaa	gactttccag
aggcagtggc 55620	tcctgaaagg	ctgtctgatt	caggcaggaa	gggagctgag	ttcagatagg
aagtagcaat 55680	gagtcattgt	gtctggggac	atggccactc	cttcgctgca	gagggacctg
ggctgagagc 55740	tcctctctta	tggctgcagt	cgggagagaa	gtctgttggg	gggagaaggg
55800	agggactccc				
ctgaaggcag 55860	tggtggggc	caccaagggt	egeeteetet	getgggcaag	ttcccagtct
55920	tgccgtgggc				
ccgccagagc 55980	ccgcacgctt	ccattccgct	gacttcatcg	acgccctcag	gatcgctggg
ccggccctgt 56040	gggagagtga	atgtggcttt	tgccaaagtt	gagtctggag	cctggaaact
56100	cagccttgat				
ctcccgtggc 56160	tggtgggcgg	caccaggggc	tgcctggctt	tgctcgttca	ccaacatcac
56220	cagggcgcgc				
56280	gccttggcag				
56340	gaggagggtg				
caggctcccc 56400	aggcctagcc	tcccagctcc	cccactttct	ccccaccctc	caccagtggc
aaagccagcc 56460	ccttcagggc	gcacggtgtc	tgcccccaag	gagggcccat	tccgttgggg
56520	ccacctcttt				
gacagcccgg 56580	cccacagcag	tgccatcggg	cccgtcattg	gcatcatcct	ctctctcttc
gtcatgggtg 56640	gtgtctattt	tgtgtgccag	cgcgtggtgt	gccagcgcta	tgcgggggcc
56700	tcccgcacga				
gccccgggcg	gttcccagca	tggccccttc	acaggtaagg	agcctgagat	atggaatgat

56760					
	caggagagta	gtctgggcag	ctttggggag	tggagcaggg	atgtgctacc
ccaggccctc 56880	ttgcacatgt	ggcagacatt	gctaatcgat	cacagcattc	agcctttccc
actgagcctg 56940	tgcttggcat	cagaatcctt	caacacagag	gcctgcatgg	ctgtagcaac
ccaccctttg 57000	gcactgtagg	tgtggagaaa	gctccttgga	cttgaccttc	atattctagt
aggacatgtg 57060	ctgtgttgtc	cacaaatcct	catgtaccct	agaaatgaat	gtggggggg
ctgggctctc 57120	tccagagctg	aaggaatcac	tctgtaccat	acagcagctt	tgtcttgagt
57180				ggcccaggca	
aggctgtgtt 57240	tgtagatggc	tgggcagccg	caccgcagag	ctgcaccatg	ctggtttgta
57300	_			ctgtgaggtc	
57360				ccagccctga	
ccctgtcctg 57420	tcccactgtc	accccaagcc	ggcctcattg	ggagcctgtt	ggatggcagg
57480				ctggcttctc	
aggagcccac 57540	agtggtggca	ccatcacagt	cgcagcagcc	cccagagaac	gcggccctgt
ctgttcctgg 57600	cgtgctctgt	gctgccccgc	ctgggttccc	tgccccagtc	gcaggcccct
tggaggaggt 57660	accatgtgtc	tcccgtttca	cagatgagcc	ccggggagct	cactctagta
gtggccagag 57720	aggcctgcgg	ctcagggagc	ggggcacatt	tccaacagga	cacaccgccc
57780				cctatgtctg	
tggctgagcc 57840	tggaagccac	ctgacctccc	ccgtcccttc	cctgccaggc	atcgcatgcg
gaaagtccat 57900	gatgagetee	gtgagcctga	tggggggccg	gggcggggtg	cccctctacg
57960				cagcacgaag	
58020				gatggggctg	
58080				gggggctgtg	
58140				ttccttcttt	
58200				agccaaaatc	
58260				gcggccgtct	
58320				gccctctgtg	
58380				ctggctgctt	
agctggatgg 58440	ttttgtgcat	gacagacaaa	cacagggtga	ttttcgtggc	taaaatactc

cctggagctt 58500	ttggcagggt	gaggggctgg	ctccagctga	gccacgcctt	gagtgaaatg	
	gaataaactg	ccgctgccct	ccaggatcac	tggggctggc	tggggagaac	
ccccgtttct 58620	gggagcacag	tcccaggatg	ccaaggcgag	cttggtgccg	agatgtgaac	
tcctgagtgt 58680	aaacagcggg	ggctgacttg	acatgctttg	tatgcttttc	atttgttcct	
gcagctgtat 58740	gcccctaagg	tgagtccagc	ccccttctgc	ttcctctggg	gcctcgccag	
tgagccccac 58800	cttgctgggg	ctggttcctc	ctgcccttct	gggtatecet	cacatctggg	
gtcttgtctt 58860	cttgttttct	ttttctttt	tttttgagac	ggagtttcac	ttttgttgcc	
caggetteag 58920	tgcaatggtg	tgatctctag	gctcaccgca	acctctgcct	cccaggttca	
agcagttccc 58980	ctgcctcagc	ctccctagta	gctgggatta	caggcatgtg	ccaccacgcc	
cagctaattt 59040	tgtattttta	gtagagatgg	ggtttctcca	tgttggtcag	gctgatcttg	
aactccctac 59100	ctcaggtgat	ccgcccacct	tggcctccca	aagtgctggg	attacaggcg	
tgagccaccg 59160	cacctggcct	ttttctttc	ttttctttc	ttttttctga	gacagggtct	
cgctctgtca 59220	cccaggctgg	agtgcaatgg	tgtcatcatg	gctaactgca	gcctctacct	
tctaggctca 59280	agcaatcctc	ccatctcagc	ccctaagtag	ctaggactgc	acgcatgcat	
ccccatgccc 59340	agctaatatt	tacattttt	gtagagatga	agtttcacta	tattgcccag	
gctggtctcc 59400	aactcctgga	ctcgagcgat	cctcctgcct	cggcctcccc	aggtgctggg	
59460		tgcctggcct				
tggtgggccc 59520	tgggaaggaa	gtagcagaag	agggttette	ttggtttcct	ggacagtaac	
59580		gggcctggct				
59640		ccactgccct				
59700		ggaacccaag				
59760	-	ctcccttggg				
59820		taattttta				
59880		gttcagtggg				
59940		acattttcct				
60000		ttattttgca				
60060		tgcagtccaa				
60120		tcctgcagtg				
tgtacatatg	caagcataca	agagcgtgga	ctttgttttc	caagccagaa	gataattgta	

60180					
	cagttgtgag	aaagagcaca	gacccattta	tcctctgcct	ggtttccccc
	gccatcttgc	atgacttcca	ttcctatcat	aagcaagaca	ctgataacga
	ttattcagat	tgacataagt	gttttttgtt	tgttcttgag	acaaacttcc
	agtgggagtg	cagtggcaca	atcacagctc	actgcagcct	caaactcctg
	attctcctgc	ctcagtcccc	tcaagtagct	cagatggcag	gtgtgcacca
tcatgccagg 60540	ctaattttta	aattttttgt	ggaggtgagg	cctcactaaa	tttcctgggc
tagtcttgaa 60600	ctcctgagct	aaagtgatcc	tcctgcctca	gcctcccaaa	gtggtaggat
tacaggcatg 60660	agccactgcg	cctgggctga	catatgtgtt	ttcgtaagcc	cgaaagatag
catctgaaga 60720	gtcaacattg	agccttgcct	tttgctgcta	acgatgtata	aaagctgctg
60780				tgcctagagc	
60840				caacaaggag	
60900				agtggggcca	
60960				gtttgttctg	
61020				caggcgtggc	
61080				cttggctgtt	
61140				cagcagaggg	
61200				tagagtaaaa	
61260				taagcatcat	
61320				tctcagcact	
61380				cctggccaac	
61440	_			gatcccagct	
61500				gcagtgagcc	
61560				caaaaaaaaa	
61620				atatatat	
61680				gaaaggcctt	
61740				tttttgagac	
61800				tcactgtaac	
cgggttggag 61860	tgattctcct	gccttacctt	cccgagtagc	tgggattata	ggcatgcacc

accatgcctg 61920	gctaattttg	tacttttagt	agagacgggg	gtttctccat	gttggtcagg
	actcgcgacc	tcaggtgatc	cacccacctc	ggcctcccaa	agtgctggga
	gagccaccat	gcccagccca	cactctcttt	cttaacgtcc	tcctcctttc
	cacatcttta	attcttctgg	gatgtaatta	gatttgatga	gcaaggtggg
	gtttcttggc	tgatggctta	tgggtggcgt	gaattagtcg	gggtctatca
	actctatgag	aatttgaaca	gagaaagttc	cgtctacagg	cttattacca
	tagcagaaat	tgaacagtga	gatgtacaga	gaactctaag	aatgcaggaa
	atggtggctc	acacctgtca	tcccagcact	ttgggagacc	aaggcgggtg
	ggtcaggagt	tcgagaccag	cctggccaac	atagtgaaac	cccatctcta
	aaaaaaatta	gctgggtgtg	gtggcgcatg	cctgtaatcc	cagctactcg
	gcaggagaat	cacttgaacc	tgggaggcag	aggttgcagt	gagccgagat
	tactccagcc	tgggtggaag	agcggaactc	tgtctgaaaa	aaaaaaaaa
	tcaacttgaa	gggaaaaatg	ccgtattgtc	tttccctttg	ttatgtcacc
	ccatcccagg	ctggcgctga	tccacgggct	ggagaggggc	tgccccagaa
	caggaagggc	ttggctggtg	ttcaggagcc	caggccaggt	caggtcaaga
ggtgttgagg 62820	ctggacggga	gaggccagct	aggggctcat	gtaggatatg	aggggtcggc
ccatttcaac 62880	gtggaaactg	agctcttctg	cttctctttc	ttcttcactg	cattaagatt
	tgggaagcag	gtatttccct	tcctataaag	gatggttggg	agcctgagtg
	gtgtagccgc	tgagttacta	acaactaggg	ctgccgtcaa	gcctatgggg
	gaggacattt	ggaaggagag	agatcaagct	gtggcaccct	gggagaggac
cacagaaaag 63120	aggccagtga	gggggttccc	cggtggcatc	tgaaggtgtg	gcccaaccag
gaggtccaga 63180	ggctgccagc	cgagtggccc	aggagaggga	acctcacagg	ggctgagtgg
gacccaagcc 63240	ctatccaccg	tcctaaccac	ccacatttct	cgggaacaag	acctcccaca
gtggcctccc 63300	cggcagtgga	aatagccaaa	ctggcaacat	ggactttctt	caactgcccg
ggcgatgctg 63360	cctcagtgcc	ccagggcagg	caggaagctc	ccacacccat	tctggaatga
ggggttggag 63420	gaaggctgag	ctgagcaaag	gacccatctc	tgctctggtt	ggtggggagg
gagcccatta 63480	tacaagagac	ccctcagggc	tcagtgaggg	gtgacagaga	cttggggagt
agtggctgtc 63540	actgcagagg	tgagagggtt	tggagagaag	gtacatgcct	ttttggccac
attgagtagc	acctggtagc	cagttagtaa	cgtgtattgg	ataaacaaaa	gattaaacgg

63600					
	aaatgttggc	tttgcttctt	tttacccaaa	cctcagttcc	ctcaagtaga
ttctgggaac 63720	accccctacc	tggctggact	gttgtgaagt	ttaaataagc	caggttaact
tcacctcctc 63780	ctttaagaca	cagctcagac	actgcctcct	ccaagaagcc	ccctctggct
tcctgtgtga 63840	atatgacggc	cctctgggct	ctagggtatc	ttagaacaat	gcttccttat
ggctttggaa 63900	ccccgctgtc	tcctggattg	ggagcaaatg	caggggagga	gccacacctg
actaatctct 63960	gggtctccca	gcacataagt	ggcataaggg	cagggctgtg	cccgcttcag
gcacttactg 64020	aaggatgtac	ttggcagagg	gtaggcagcc	ggcggatgag	ccctcactc
tccccagctg 64080	actgcgtggg	cgggaaaggc	gggttcagga	gacccagcct	ccctgggctg
64140	tgcacatcca				
64200	gactctctcc				
tgtgtgtgtg 64260	tgtgtgtgtg	tgtgttgttt	gttttatttt	atttatttat	ttatttattt
64320	ttatttattt				
64380	tcggctcact				
64440	agtagccgga				
64500	gacagggttt				
64560	cgcctcagcc				
64620	ggggtacatg				
64680	tggagtgcag				
64740	tectgeetea				
64800	ttttgtattt				
64860	gacctcgtga				
64920	gtgcccagcc				
64980	tgatgtaacc				
65040	tttcctactt				
65100	ctggagtgca				
65160	gggttcatgc				
65220	ccgtgcccgg				
accgtgttag 65280	ccaggatggt	ctcgatctcc	tgacctcata	atccgcccgt	crcggccrcc

caaagtgctg 65340	ggattacagg	catgagccac	cgccccagc	ctatttattc	ttaaatgtac
aataaattat 65400	tgttgactcc	agtcaccctg	ctgtgctacc	aaatacggat	cttcttcatt
ctatctaact 65460	gtatttctgt	acctgttaac	catctctcct	ccacctcacc	ccccaaaccc
actacccttc 65520	tcagcctctg	gtaaccatcc	ttctactctc	tatctctatg	agttcaattg
tattaatttt 65580	tagctccccg	gccgggcacg	gtggctcacg	cctgtaatcc	cagcacttca
ggaggctgag 65640	gcaggtggat	cacgaggtca	ggagtttgag	accagcctgg	ccaacatggt
ggaaccccat 65700	ctctactaaa	aacacaaaaa	ttagctgggc	gtggtggtgg	gcgcttgtag
tcccagctac 65760	ttgggaggct	gaggcaggag	aatcgcttga	aactgggagg	cagaggttgc
65820		ctgcactcca			
65880		ccacaaataa			
65940		ataatgacct			
66000		ggcgcagtgg			
66060		aggtcaagag			
66120		caagaaatta			
66180		gcacgacata			
66240		cctttctcct			
66300		cacctttccg			
attcgtacca 66360	ctcctcactt	tegtetteet	acccccacta	tecetttteg	tcctctctat
66420		ttctcttcat			
66480		ccctcaccta			
66540	_	tctctcttac			
66600		cttctcagtc			
66660		tcgccccttt	_		
66720		ctcactactt			
66780		cttacaaccg			
66840		cgcccctcca			
cgcccctcca 66900	tcgcttatgc	atcctcttct	attgcacacc	gcccctccat	cgcttatgca
tcctcttcta 66933	ttgcacatcc	tcttctattg	cac		

```
<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 12
                                                                       21
ctgagcggaa ttcgtgagac c
<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 13
                                                                       23
ttggtctcac gtattccgct cga
<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 14
                                                                       20
ctcgagaatt ctggatcctc
<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 15
                                                                       22
ttgaggatcc agaattctcg ag
<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 16
                                                                       21
tgtatgcgaa ttcgctgcgc g
<210> 17
<211> 23
```

```
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 17
                                                                       23
ttcgcgcagc gaattcgcat aca
<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 18
                                                                       21
gtccactgaa ttctcagtga g
<210> 19
<211> 23
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 19
                                                                       23
ttgtcactga gaattcagtg gac
<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 20
                                                                       21
gaatccgaat tcctggtcag c
<210> 21
<211> 23
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 21
                                                                       23
ttgctgacca ggaattcgga ttc
<210> 22
<211> 33
<212> DNA
<213> Artificial Sequence
```

```
<220>
<223> Artificial sequence is a primer.
                                                                       33
cuacuacuac uactgagcgg aattcgtgag acc
<210> 23
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 23
                                                                       32
cuacuacuac uactogagaa ttctggatcc tc
<210> 24
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 24
cuacuacuac uatgtatgcg aattcgctgc gcg
                                                                       33
<210> 25
<211> 33
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 25
                                                                       33
cuacuacuac uagtccactg aattctcagt gag
<210> 26
<211> 33
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 26
                                                                       33
cuacuacuac uagaatccga attcctggtc agc
<210> 27
<211> 45
<212> DNA
<213> Artificial Sequence
<220>
```

```
<223> Artificial sequence is a primer.
<400> 27
aactggaaga attcgcggcc gcaggaattt tttttttt ttttt
                                                                       45
<210> 28
<211> 13
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 28
                                                                       13
aattcggcac gag
<210> 29
<211> 9
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 29
                                                                       9
ctcgtgccg
<210> 30
<211> 14
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 30
                                                                       14
gtacgacggc cagt
<210> 31
<211> 16
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 31
                                                                       16
aacagctatg accatg
<210> 32
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
```

```
<400> 32
                                                                       18
ccaagttctg agaagtcc
<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 33
                                                                       20
aatacctgaa accatacctg
<210> 34
<211> 57
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 34
agetgetegt agetgtetet eeetggatea egggtacatg taetggaeag aetgggt 57
<210> 35
<211> 56
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 35
tgagacgccc ggattgagcg ggcagggata gcttattccc tgtgccgcat tacggc
                                                                       56
<210> 36
<211> 27
<212> DNA
<213> Artificial Sequence
<223> Artificial sequence is a primer.
<400> 36
                                                                       27
agetgetegt agetgtetet eeetgga
<210> 37
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 37
                                                                       27
gccgtaatgc ggcacaggga ataagct
```

```
<210> 38
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 38
                                                                      20
gagaggctat atccctgggc
<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence is a primer.
<400> 39
                                                                      20
acagcacgtg tttaaagggg
<210> 40
<211> 163
<212> DNA
<213> Homo sapiens
<400> 40
                                                                      60
actaaaqcqc cqccqccqcq ccatggagcc cgagtgagct cggcgcgggc ccgtccggcc
gccggacaac atggaggcag ctccgcccgg gccgccgtgg ccgctgctgc tgctgctgct
                                                                      120
                                                                      163
getgetgetg gegetgtgeg getgeeegge ceeegeegeg gee
<210> 41
<211> 419
<212> DNA
<213> Homo sapiens
<400> 41
                                                                      60
gccccacage etegeogete etgetatttg ccaacegeeg ggaegtaegg etggtggaeg
                                                                      120
ccqqcqqaqt caaqctqqaq tccaccatcg tggtcagcgg cctggaggat gcggccgcag
tggacttcca gttttccaag ggagccgtgt actggacaga cgtgagcgag gaggccatca
                                                                      180
                                                                      240
agcagaccta cctgaaccag acgggggccg ccgtgcagaa cgtggtcatc tccggcctgg
tetetecega eggeetegee tgegaetggg tgggeaagaa getgtaetgg aeggaeteag
                                                                      300
                                                                      360
agaccaaccg catcgaggtg gccaacctca atggcacatc ccggaaggtg ctcttctggc
aggacettga ceageegagg geeategeet tggaceeege teaegggtaa accetgetg
                                                                      419
<210> 42
<211> 221
<212> DNA
<213> Homo sapiens
<400> 42
                                                                      60
ccccgtcaca ggtacatgta ctggacagac tggggtgaga cgccccggat tgagcgggca
                                                                      120
gggatggatg gcagcacccg gaagatcatt gtggactcgg acatttactg gcccaatgga
                                                                      180
ctgaccatcg acctggagga gcagaagctc tactgggctg acgccaagct cagcttcatc
                                                                      221
caccgtgcca acctggacgg ctcgttccgg taggtaccca c
```

<210> 43 <211> 221 <212> DNA <213> Homo	sapiens					
tctccgggga agcgcactgg	cactctgtac	tggacagact aaggagatcc	ggcagacccg tgagtgccct	gcacccette ctccatccat atactcaccc g	gcctgcaaca	60 120 180 221
<210> 44 <211> 156 <212> DNA <213> Homo	sapiens					
gtccccaagc		acacatgcgc	ctgccccacg	tggtcccacc ggtgtgcaga		60 120 156
<210> 45 <211> 416 <212> DNA <213> Homo	sapiens					
gctggacacg tgccatcgac catccgcagg cgaccccgat cacggaccgc	ccggacttca tacgacccgc gcgtacctgg ggcatcgcgg atcgaggtga	ccgacatcgt tagagggcta acgggtctgg tcgactgggt cgcgcctcaa	gctgcaggtg tgtctactgg ggcgcagacg ggcccgaaac cggcacctcc	acggacctac gacgacatcc acagatgacg ctggtcaaca ctctactgga cgcaagatcc atggggtaag	ggcacgccat aggtgcgggc ccgagatcaa ccgacacggg tggtgtcgga	60 120 180 240 300 360 416
<210> 46 <211> 198 <212> DNA <213> Homo	sapiens					
aacttggatg	ggcaggagcg acctgcagga	gcgtgtgctg	gtcaatgcct	accctaaaat ccctcgggtg acgccaagac	gcccaacggc	60 120 180 198
<210> 47 <211> 244 <212> DNA <213> Homo	sapiens					
tcccgcacat gccgcagcat	tttcgggttc cgagcgggtg	acgctgctgg cacaaggtca	gggacttcat aggccagccg	gaccctcctg ctactggact ggacgtcatc ggtcgtcggt	gactggcagc attgaccagc	60 120 180 240

ggtc	244
<210> 48 <211> 313 <212> DNA <213> Homo sapiens	
<pre>&lt;400&gt; 48 gttcgcttcc aggaaccaac ccgtgtgcgg acaggaacgg ggggtgcagc cacctgtgct tctgcacacc ccacgcaacc cggtgtggct gccccatcgg cctggagctg ctgagtgaca tgaagacctg catcgtgcct gaggcctttt tggtcttcac cagcagagcc gccatccaca ggatctccct cgagaccaat aacaacgacg tggccatccc gctcacgggc gtcaaggagg cctcagccct ggactttgat gtgtccaaca accacatcta ctggacagac gtcagcctga aggtagcgtg ggc</pre>	60 120 180 240 300 313
<210> 49 <211> 255 <212> DNA <213> Homo sapiens	
<pre>&lt;400&gt; 49 cctgctgcca gaccatcagc cgcgccttca tgaacgggag ctcggtggag cacgtggtgg agtttggcct tgactacccc gagggcatgg ccgttgactg gatgggcaag aacctctact gggccgacac tgggaccaac agaatcgaag tggcgcggct ggacgggcag ttccggcaag tcctcgtgtg gagggacttg gacaacccga ggtcgctggc cctggatccc accaaggggt aagtgtttgc ctgtc</pre>	60 120 180 240 255
<210> 50 <211> 210 <212> DNA <213> Homo sapiens	
<pre>&lt;400&gt; 50 gtgccttcca gctacatcta ctggaccgag tggggcggca agccgaggat cgtgcgggcc ttcatggacg ggaccaactg catgacgctg gtggacaagg tgggccgggc caacgacctc accattgact acgctgacca gcgcctctac tggaccgacc tggacaccaa catgatcgag tcgtccaaca tgctgggtga gggccgggct</pre>	60 120 180 210
<210> 51 <211> 352 <212> DNA <213> Homo sapiens	
<pre>&lt;400&gt; 51 gtgttcatgc aggtcaggag cgggtcgtga ttgccgacga tctcccgcac ccgttcggtc tgacgcagta cagcgattat atctactgga cagactggaa tctgcacagc attgagcggg ccgacaagac tagcggccgg aaccgcaccc tcatccaggg ccacctggac ttcgtgatgg acatcctggt gttccactcc tcccgccagg atggcctcaa tgactgtatg cacaacaacg ggcagtgtgg gcagctgtgc cttgccatcc ccggcggcca ccgctgcggc tgcgcctcac actacaccct ggaccccagc agccgcaact gcagccgtaa gtgcctcatg gt</pre>	60 120 180 240 300 352
<210> 52 <211> 225 <212> DNA <213> Homo sapiens	
<400> 52	

gcctcctcta cgcccaccac cttcttgctg ttcagccaga aatctgccat cagtcggatg atcccggacg accagcacag cccggatctc atcctgcccc tgcatggact gaggaacgtc aaagccatcg actatgaccc actggacaag ttcatctact gggtggatgg gcgccagaac atcaagcgag ccaaggacga cgggacccag gcaggtgccc tgtgg	60 120 180 225
<210> 53 <211> 235 <212> DNA <213> Homo sapiens	
<400> 53 ctttgtctta cagccctttg ttttgacctc tctgagccaa ggccaaaacc cagacaggca gcccacgac ctcagcatcg acatctacag ccggacactg ttctggacgt gcgaggccac caataccatc aacgtccaca ggctgagcgg ggaagccatg ggggtggtgc tgcgtgggga ccgcgacaag cccagggcca tcgtcgtcaa cgcggagcga gggtaggagg ccaac	60 120 180 235
<210> 54 <211> 218 <212> DNA <213> Homo sapiens	
<400> 54  ccaccctccc gcaggtacct gtacttcacc aacatgcagg accgggcagc caagatcgaa cgcgcagccc tggacggcac cgagcgcgag gtcctcttca ccaccggcct catccgccct gtggccctgg tggtggacaa cacactgggc aagctgttct gggtggacgc ggacctgaag cgcattgaga gctgtgacct gtcaggtacg cgccccgg	60 120 180 218
<210> 55 <211> 234 <212> DNA <213> Homo sapiens	
<pre>&lt;400&gt; 55 ggctgcttgc aggggccaac cgcctgaccc tggaggacgc caacatcgtg cagcctctgg gcctgaccat ccttggcaag catctctact ggatcgaccg ccagcagcag atgatcgacc gtgtggagaa gaccaccggg gacaagcgga ctcgcatcca gggccgtgtc gcccacctca ctggcatcca tgcagtggag gaagtcagcc tggaggagtt ctgtacgtgg gggc</pre>	60 120 180 234
<210 > 56 <211 > 157 <212 > DNA <213 > Homo sapiens	
<400> 56 ttgtctttgc agcagcccac ccatgtgccc gtgacaatgg tggctgctcc cacatctgta ttgccaaggg tgatgggaca ccacggtgct catgcccagt ccacctcgtg ctcctgcaga acctgctgac ctgtggaggt aggtgtgacc taggtgc	60 120 157
<210> 57 <211> 272 <212> DNA <213> Homo sapiens	
<400> 57 gttctcctct gtccctcccc cagagccgcc cacctgctcc ccggaccagt ttgcatgtgc cacaggggag atcgactgta tccccggggc ctggcgctgt gacggctttc ccgagtgcga tgaccagagc gacgaggagg gctgccccgt gtgctccgcc gcccagttcc cctgcgcgcg	60 120 180

	gtggacetge gactgtgacg			gcagactgtc	aggaccgctc	240 272
<210> 58 <211> 134 <212> DNA <213> Homo	sapiens					
	gccatctgcc cagtgcgact gctt					60 120 134
<210> 59 <211> 274 <212> DNA <213> Homo	sapiens					
ccatcgggcc tgtgccagcg atgtcagcgg	ggcagaaatc cgtcattggc cgtggtgtgc gaccccgcac aggtaaggag	atcatcctct cagcgctatg gtgcccctca	ctctcttcgt cgggggccaa atttcatagc	catgggtggt cgggcccttc	gtctattttg ccgcacgagt	60 120 180 240 274
<210> 60 <211> 164 <212> DNA <213> Homo	sapiens					
gccggggcgg	aggcategca ggtgeceete gaaggecaeg	tacgaccgga	accacgtcac	aggggcctcg		60 120 164
<210> 61 <211> 130 <212> DNA <213> Homo	sapiens					
	tcagatcctg gttctactct					60 120 130
<210> 62 <211> 496 <212> DNA <213> Homo	sapiens					
ccgacgacgc gccagcaagt ccccacagcc agctacttcc	cggccactgc cctgcagcac actacctgga agtacctgtc atctcttccc ctggcttctc	cgacgtgtgt tttgaactcg ggcggaggac gccccctccg	gacagcgact gactcagacc agctgcccgc tcccctgca	acagegecag cetatecace cetegecege eggaeteate	ccgctggaag cccacccacg caccgagagg ctgacctcgg	60 120 180 240 300 360

aatatatttt atgatttaaa aaataaatat aatt aactgtgatg gggtgggcag ggctgggaga actt ttaattttgt aaaaca	tgtaca gtggagaaat atttataaac 4	120 180 196
<210> 63 <211> 22 <212> DNA <213> Artificial Sequence		
<220> <223> Artificial Sequence is a primer	÷.	
<400> 63 ttttgggtac acaattcagt cg	22	
<210> 64 <211> 20 <212> DNA <213> Artificial Sequence		
<220> <223> Artificial Sequence is a primer	÷.	
<400> 64 aaaactgtgg gtgcttctgg	20	
<210> 65 <211> 21 <212> DNA <213> Artificial Sequence		
<220> <223> Artificial Sequence is a primer	÷.	
<400> 65 gtgattgagc caateetgag a	21	
<210> 66 <211> 21 <212> DNA <213> Artificial Sequence		
<220> <223> Artificial Sequence is a primer	·.	
<400> 66 tgagccaaat aaaccccttc t	21	
<210> 67 <211> 20 <212> DNA		
<213> Homo sapiens		
<400> 67 ctggactacg tggccttctc	20	

<210> 68 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 68 ttcagaagca	cttggctgg	19
<210> 69 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 69 ctcagtgcca	tgaagatgga	20
<210> 70 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 70 caagatcact	cgatctccag g	21
<210> 71 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 71 gtttcaggag	actcagagtc	20
<210> 72 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 72 ttctgcaggt	tgctgttgag	20
<210> 73 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 73 ttattgtgat	ttcccgtggc	20
<210> 74 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 74 gccctctgtc	ctgacttcag g	21
<210> 75		

<211> 20 <212> DNA <213> Homo	sapiens	
<400> 75 gagaaagaaa	taaggggacc	20
<210> 76 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 76	agcactgaga	20
<210> 77 <211> 24 <212> DNA <213> Homo	saniens	
<400> 77	cagttcagtg gcct	24
<210> 78 <211> 25 <212> DNA		
<213> Homo <400> 78 atacaccaag	gtccatgttc cccgt	25
<210> 79 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 79	acagcgtgag actac	25
<210> 80 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 80	tgcacacccg cttca	25
<210> 81 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 81	cctcattcat	20
<210> 82 <211> 20		

<212> DNA <213> Homo	sapiens	
<400> 82 caagattctg	tagcttctgg	20
<210> 83 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 83 cagagaagtc	aagggacttg	20
<210> 84 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 84 atcctctcac	atcccacact	20
<210> 85 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 85 caaggctaaa	agacgaaaaa	20
<210> 86 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 86 tcaggagcat	ttcatcttt	20
<210> 87 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 87 aagtcgaggc		19
<210> 88 <211> 20 <212> DNA	anniona	
<213> Homo <400> 88 gccctgtgtt		20
<210> 89 <211> 19 <212> DNA		

<213> Homo	sapiens	
<400> 89 aaggtgtgag	gatcactgg	19
<210> 90 <211> 17 <212> DNA <213> Homo	sapiens	
<400> 90 agctcatggg	ggctatt	17
<210> 91 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 91 gcttctccga	gtgtatcaac	20
<210> 92 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 92 atggcagagg	acttagaaca	20
<210> 93 <211> 24 <212> DNA <213> Homo	sapiens	
<400> 93 gatcagcgaa	cttcctctcg gctc	24
<210> 94 <211> 24 <212> DNA <213> Homo	sapiens	
<400> 94 tccacattga	ggactgtggg aacg	24
<210> 95 <211> 20 <212> DNA	ganiang	
<213> Homo <400> 95		20
<pre>gctaatcaca &lt;210&gt; 96</pre>	gtctaaccga	20
<211> 19 <212> DNA <213> Homo	sapiens	

<400> 96 ttgcactgtc	ttggatgca	19
<210> 97 <211> 25 <212> DNA		
<213> Homo	sapiens	
<400> 97 gcacagctgt	agtggggttc taggc	25
<210> 98 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 98 caggcgcaaa	ggacatgcac acggc	25
<210> 99 <211> 25 <212> DNA		
<213> Homo	sapiens	
<400> 99 caccgatgag	tgcacgttca aggag	25
<210> 100 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 100 cagacagaga	tgctccacgc catac	25
<210> 101 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 101 tttctgggtg	tgtctgaat	19
<210> 102 <211> 20 <212> DNA <213> Homo	saniens	
	aptens	
<400> 102 acacagttgc	tctaaagggt	20
<210 > 103 <211 > 20 <212 > DNA	ganiong	
<213> Homo	pahrena	

<400> 103 catttgggaa a	tccagaaga	20
<210> 104 <211> 25 <212> DNA <213> Homo s	apiens	
<400> 104 taggtgtctt a	ttttttgtt gcttc	25
<210> 105 <211> 25 <212> DNA <213> Homo s	apiens	
<400> 105 gacataccat g	aacactata agagg	25
<210> 106 <211> 20 <212> DNA <213> Homo sa	aniens	
<400> 106 caacccatac ca		20
<210> 107 <211> 21 <212> DNA <213> Homo sa	apiens	
<400> 107 gaacaagagg ge		21
<210> 108 <211> 22 <212> DNA <213> Homo sa	apiens	
<400> 108 tgaggacaca ga	atactgatg gg	22
<210> 109 <211> 25 <212> DNA <213> Homo sa	apiens	
<400> 109 gaagtgttcc c	tcttaaatt ctttg	25
<210> 110 <211> 25 <212> DNA <213> Homo sa	apiens	
<400> 110		

gaactatatt	gtagttagtg a	aggag	25
<210> 111 <211> 18 <212> DNA	caniens		
<213> Homo <400> 111 cctgtaaccc			18
<210> 112 <211> 22 <212> DNA			
<213> Homo	sapiens		
<400> 112 tettgettee	taagtttete (	33	22
<210> 113 <211> 21 <212> DNA <213> Homo	sapiens		
<400> 113 actccatcca	cctcatcact q	9	21
<210> 114 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 114	ctcatctgac		20
<210> 115 <211> 20 <212> DNA			
<213> Homo	sapiens		
<400> 115 gtggacaggc	atagctgagg		20
<210> 116 <211> 21 <212> DNA <213> Homo	sapiens		
<400> 116 tgttcactct	tetgeetgea g	g	21
<210> 117 <211> 20 <212> DNA <213> Homo	sanjens		
<400> 117	tcacagaatg		20

<210> 118 <211> 20 <212> DNA <213> Homo sapiens	
<400> 118 caagaggctg gtagaaggtg	20
<210> 119 <211> 24 <212> DNA <213> Homo sapiens	
<400> 119 gactccagtc tgggcaataa aagc	24
<210> 120 <211> 22 <212> DNA <213> Homo sapiens	
<400> 120 ggtggcagca tgacctctaa ag	22
<210> 121 <211> 16 <212> DNA <213> Homo sapiens	
<400> 121 caggcccagt ctcttg	16
<210> 122 <211> 18 <212> DNA <213> Homo sapiens	
<400> 122 cgtgtccaga tgaaagtg	18
<210> 123 <211> 18 <212> DNA <213> Homo sapiens	
<400> 123 acctcacggt gtaatece	18
<210> 124 <211> 18 <212> DNA <213> Homo sapiens	
<400> 124 cttgaagccc atctttgc	18

<	210> 125 211> 23 212> DNA		
<	213> Homo	sapiens	
	:400> 125 :atttgcaaa	gcttgagact tct	23
<	210> 126 211> 20 212> DNA 213> Homo	sapiens	
	400> 126 atcactgtg	ctttgttgcc	20
<	210> 127 211> 20 212> DNA 213> Homo	sapiens	
	400> 127 ctttattgt	cagcgtgggc	20
<	210> 128 211> 18 212> DNA 213> Homo	sapiens	
	400> 128 ctccctcga	tggcttcc	18
<	210> 129 211> 18 212> DNA 213> Homo	sapiens	
	400> 129 agcagggga	gagaaggc	18
<	210> 130 211> 20 212> DNA 213> Homo	sapiens	
	400> 130 ccactggct	tgttttattg	20
<	210> 131 211> 25 212> DNA 213> Homo	sapiens	
	400> 131 gccacttta	ttgttatttt gatgc	25
<	210> 132		

<211> 25 <212> DNA <213> Homo	sapiens	
<400> 132 aagagtgaac	aaaagcaaac atacc	25
<210> 133 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 133 gtggagtgtg		18
<210> 134 <211> 25 <212> DNA <213> Homo	saniens	
<400> 134	gataagtatg tegge	25
<210> 135 <211> 25 <212> DNA		
<213> Homo <400> 135	sapiens	
	atgattctaa ttatt	25
<210> 136 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 136 tcccccaaaa	gaatgtaaag g	21
<210 > 137 <211 > 20 <212 > DNA <213 > Homo	saniens	
<400> 137	ttgtgtgctg	20
<210> 138 <211> 18 <212> DNA		
<213> Homo <400> 138		18
<pre>atcacccagg &lt;210&gt; 139 &lt;211&gt; 24</pre>	ccayyyac	10

<212> DNA <213> Homo	sapiens		
<400> 139 tcagaagcag	aactgtttt aa	aca	24
<210> 140 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 140 cctgcttgaa	agttctagag co	С	22
<210> 141 <211> 21 <212> DNA <213> Homo	sapiens		
<400> 141 caagcccggg	ttttattgaa a		21
<210> 142 <211> 18 <212> DNA <213> Homo	sapiens		
<400> 142 gatgccagga	ccatggac		18
<210> 143 <211> 24 <212> DNA <213> Homo	sapiens		
<400> 143 gcatatagaa	acaatttatt go	ccg	24
<210> 144 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 144 ctctgaagca	gggaccagag		20
<210> 145 <211> 19 <212> DNA <213> Homo	sapiens		
<400> 145 ctaccacacc			19
<210> 146 <211> 18 <212> DNA			

<213> Homo	sapiens	
<400> 146 caagcgaaag	ctgccttc	18
<210> 147 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 147 gttgtcttga	cttcaggtct gtc	23
<210> 148 <211> 24 <212> DNA <213> Homo	sapiens	
<400> 148 ttttccttca	acaatcacta ctcc	24
<210 > 149 <211 > 20 <212 > DNA <213 > Homo	sapiens	
<400> 149 gcgtggggat	atagaggtca	20
<210> 150 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 150 tacgtggcca	agaagctagg	20
<210> 151 <211> 24 <212> DNA <213> Homo	sapiens	
<400> 151 taatatatcc	ccagtctaag gcat	24
<210> 152 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 152 agcttgcaga	tggagccc	18
<210 > 153 <211 > 25 <212 > DNA <213 > Homo	sapiens	

<400> 153 tggttttaaa	cctttaatga	gaaaa	25
<210> 154 <211> 23 <212> DNA <213> Homo	sapiens		
<400> 154 tgttgatcta	taccctgttt	ccg	23
<210> 155 <211> 25 <212> DNA <213> Homo	sapiens		
<400> 155 aattatttaa	aagagaggaa	aggca	25
<210> 156 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 156 tggctgtgaa	cttcctctga		20
<210> 157 <211> 25 <212> DNA <213> Homo	sapiens		
<400> 157 ggttacagaa	aaacatttga	gagat	25
<210> 158 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 158	ttcccttctc	tg	22
<210> 159 <211> 23 <212> DNA <213> Homo	saniens		
<400> 159	atttatttca	ccg	23
<210> 160 <211> 18 <212> DNA <213> Homo	sapiens		

<400> 160 tctgcggctg	ttggattt	18
<210> 161 <211> 23 <212> DNA		
<213> Homo	sapiens	
<400> 161 ttgaaaaacc	atttatttca ccg	23
<210> 162		
<211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 162		
tgttctcttc	teccageagg	20
<210> 163		
<211> 23		
<212> DNA <213> Homo	saniens	
1225 1101110	~~ <del>~</del>	
<400> 163		
ctttattgaa	aacattgagt gca	23
<210> 164		
<211> 20		
<212> DNA	and and	
<213> Homo	sapiens	
<400> 164		
ttgtcaaatt	cccccaaaa	20
<210> 165		
<211> 16		
<212> DNA		
<213> Homo	sapiens	
<220>		
<221> misc_	feature	
<222> 12 <223> n = A	TCorG	
<223> II = A	, i, c or g	
<400> 165		
aaaccacgac	cnccaa	16
<210> 166		
<211> 20		
<212> DNA	ganiene	
<213> Homo	papiens	
<400> 166		_
ccctggaaag	gtaagatgct	20
<210> 167		

<211> 23 <212> DNA <213> Homo	sapiens	
<400> 167 cttttggtag	agacaaggtc tca	23
<210> 168 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 168 tatctgtctg	tagtgcttca aatgt	25
<210 > 169 <211 > 19 <212 > DNA		
<213> Homo	sapiens	
<400> 169 gacgaaggtg	attcagggc	19
<210> 170 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 170	-	
actgaagaac	tcttgtcct	19
<210> 171 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 171 cagataaaag	agtcactatg gctca	25
<210> 172 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 172 cacttctccc	actttgtccc	20
<210> 173 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 173 ttattgataa	gcattagtga acccc	25
<210> 174 <211> 20		

<212> DNA <213> Homo	sapiens		
<400> 174 tggcaagtta	ggcacagtca		20
<210> 175 <211> 21 <212> DNA <213> Homo	sapiens		
<400> 175 ctatgcccag	agatgaacag g	3	21
<210> 176 <211> 20 <212> DNA <213> Homo	sapiens		
1010	54910115		
<400> 176 tccactaagg	gctatgtcgc		20
<210> 177 <211> 24 <212> DNA <213> Homo	sapiens		
<400> 177	_		
gccagcttta	ttgagtaaac t	ctcc	24
<210> 178 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 178			
	tacaagtggt g	33	22
<210> 179 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 179			
catcccaacc	atcactcagt		20
<210> 180 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 180	•		
	ttacagattt g	ra	22
<210> 181 <211> 23 <212> DNA			

<213> Homo	sapiens	
<400> 181 agactacatt	ttggaaccag tgg	23
<210> 182 <211> 23 <212> DNA <213> Homo	o sapiens	
<400> 182 tgaaaggata	tttatagcct gga	23
<210> 183 <211> 20 <212> DNA <213> Homo	o sapiens	
<400> 183 gaaggttttg	tccctcgatc	20
<210> 184 <211> 20 <212> DNA <213> Homo	o sapiens	
<400> 184 tgagggttgg	g gaagatcata	20
<210> 185 <211> 18 <212> DNA <213> Homo	o sapiens	
<400> 185 ccttcatagc	cacacccg	18
<210> 186 <211> 21 <212> DNA <213> Homo	o sapiens	
<400> 186 cagctaactg	ttgacatgcc a	21
<210> 187 <211> 25 <212> DNA <213> Homo	o sapiens	
<400> 187 tctttactgt	gettacaact tteet	25
<210> 188 <211> 20 <212> DNA <213> Homo	o sapiens	

<400> 188 caacagtgca	gtcggtatcg	20
<210> 189 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 189		
agatcagcaa	gcagatag	18
<210> 190 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 190 cattccacat	ggatagac	18
<210> 191 <211> 24 <212> DNA <213> Homo	sapiens	
<400> 191		
catacctatg	aggtgtgcta cagg	24
<210> 192 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 192 gcattttctc	atcatccttg c	21
<210> 193 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 193 ttacagccac	caaggtttcc	20
<210> 194 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 194 aggtgtgtgt	gccaggttga	20
<210 > 195 <211 > 25 <212 > DNA <213 > Homo	canjens	
-2137 HOMO	Daptono	

<400> 195 cactgttatc	tcattaactg	tgagg	25
<210> 196 <211> 21 <212> DNA <213> Homo	sapiens		
<400> 196 tttgattttg	tgtctcccaa	a	21
<210> 197 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 197 ccccactccc	acttttattt		20
<210> 198 <211> 24 <212> DNA <213> Homo	sapiens		
<400> 198 ccagtcacct	ttactagtcc	tttg	24
<210> 199 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 199 aggacacagc	ctgcatctag		20
<210> 200 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 200 accaggcatt	gcactaaaag		20
<210> 201 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 201 gatgggtcac	actaacctgt	ca	22
<210> 202 <211> 24 <212> DNA <213> Homo	sapiens		
<400> 202			

acatttatat	ttggacatgc	aacc	24
<210> 203 <211> 22 <212> DNA			
<213> Homo	sapiens		
<400> 203 agcatcttta	atgtgtcagg	ca	22
<210> 204 <211> 18 <212> DNA			
<213> Homo	sapiens		
<400> 204 atgtgctggg	ctggaaag		18
<210> 205 <211> 20 <212> DNA			
<213> Homo	sapiens		
<400> 205 tcacattcaa	aaatcggcaa		20
<210> 206 <211> 18 <212> DNA			
<213> Homo	sapiens		
<400> 206 ctgcctgtgt	ggtgtcgc		18
<210> 207 <211> 25 <212> DNA			
<213> Homo	sapiens		
<400> 207 tgttttattt	ctcagtacaa	agcca	25
<210> 208 <211> 19			
<212> DNA <213> Homo	sapiens		
<400> 208 gacctcctgt	gacaccacg		19
<210> 209 <211> 25 <212> DNA			
<213> Homo	sapiens		
<400> 209 ccaccaaatt	atttatagtt	ctgcg	25

<210> 210 <211> 23 <212> DNA <213> Homo sapiens	
<400> 210 gtaagattct ccactgttgc acc	23
<210> 211 <211> 20 <212> DNA <213> Homo sapiens	
<400> 211 cctataatgg gctggaccaa	20
<210> 212 <211> 21 <212> DNA <213> Homo sapiens	
<400> 212 actcctcatg tgaagtcacc g	21
<210> 213 <211> 20 <212> DNA <213> Homo sapiens	
<400> 213 cagtgtgcac gttttcattt	20
<210> 214 <211> 20 <212> DNA <213> Homo sapiens	
<400> 214 cagcatcttc agcacttacc	20
<210> 215 <211> 25 <212> DNA <213> Homo sapiens	
<400> 215 ctgcatttat tatgagaatc aacag	25
<210> 216 <211> 20 <212> DNA <213> Homo sapiens	
<400> 216 tgctgctggg agtcagagtc	20

<210> 217 <211> 23 <212> DNA		
<213> Homo	sapiens	
<400> 217 cagggcactg	agatacactt acc	23
<210> 218 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 218 aaggatcaag	ccaggcattt g	21
<210> 219 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 219 acacatctct	tctgtgcccc	20
<210> 220 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 220 tgaaccctgg	aggcagag	18
<210> 221 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 221 cattccccag	tttgcagac	19
<210> 222 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 222 gtgctgggat	tacaggtgt	19
<210> 223 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 223 gcagagaagt	cctgttagcc	20
<210> 224		

<211> 20 <212> DNA <213> Homo	sapiens	
<400> 224 ccatgctaga	gaagcacaac	20
<210> 225 <211> 20 <212> DNA		
<213> Homo <400> 225	sapiens	
agtgtggggc	aggacctctg	20
<210> 226 <211> 21 <212> DNA		
<213> Homo	sapiens	
<400> 226 cagacagata	gccctgggtt c	21
<210> 227 <211> 20 <212> DNA	aoni ona	
<213> Homo <400> 227	sapiens	
	ccttgtctgt	20
<210> 228 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 228 agcccccctg	gggataatc	19
<210> 229 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 229 gatgcttacc	taccacggc	19
<210> 230 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 230	tctgggctat g	21
<210> 231 <211> 20		

<212> DNA <213> Homo	sapiens	
<400> 231 tggcagacca	tgctccgcct	20
<210> 232 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 232 gagaaggccg	ggaggctctg	20
<210> 233 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 233 ctccatcaca	accagatttg aggct	25
<210> 234 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 234 gggtgtgagc	tgctgctgaa gg	22
<210> 235 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 235 agtgggaaac	ctcaggtagc tcccg	25
<210> 236 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 236 cagtttggct	cagacatatg ggggc	25
<210> 237 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 237 cattagtagt	gggggacag	20
<210> 238 <211> 21 <212> DNA		

<213> Homo	sapiens	
<400> 238 caaagcgaca	gtgagttagg g	21
<210> 239 <211> 20 <212> DNA <213> Homo	saniens	
<400> 239	Saprens	
ggagtagacc	atgattactg	20
<210> 240 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 240		
catggtctat	ttattctcg	19
<210> 241 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 241 cgccctggat	cctcacacta ca	22
<210> 242 <211> 21 <212> DNA <213> Homo	saniens	
<400> 242		
gggcatcagg	ggatgggtag a	21
<210> 243 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 243		
	gtgttttgaa tgg	23
<210> 244 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 244	•	
	gataagtaaa cg	22
<210> 245 <211> 22 <212> DNA	ganiong	
<213> Homo	pahrem	

tatgaggagg gc	22
o sapiens	
accttccgtc ctg	23
sapiens	
aggggc	16
o ganjeng	
sapiens	
cttgggg	17
o sapiens	
cttagcacct g	21
sapiens	
aactggtgac	20
o sapiens	
-	
atgtgacttc	20
o sapiens	
	sapiens accttccgtc ctg  sapiens aggggc  sapiens cttgggg  sapiens cttagcacct g  sapiens aactggtgac  sapiens

<400> 252 caatcccaac cgtaacaggc	20
<210> 253 <211> 19 <212> DNA <213> Homo sapiens	
<400> 253 cttgatctcg cccaggaac	19
<210> 254 <211> 20 <212> DNA <213> Homo sapiens	
<400> 254 gctcgctgaa ggatgaagac	20
<210> 255 <211> 17 <212> DNA <213> Homo sapiens	
<400> 255 gaatcgcttg aacccag	17
<210> 256 <211> 17 <212> DNA <213> Homo sapiens	
<400> 256 ccaggtggtc ttaacgg	17
<210> 257 <211> 21 <212> DNA <213> Homo sapiens	
<220> <221> misc_feature <222> 8 <223> n = A,T,C or G	
<400> 257 gaacgttntt catgtaggcg t	21
<210> 258 <211> 16 <212> DNA <213> Homo sapiens	
<400> 258 taatggtege tgteee	16
<210> 259	

<211> 22 <212> DNA <213> Homo	sapiens	
<400> 259 agggaaaatg	gtatgtgggg ag	22
<210> 260 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 260 gcagtgtgtg	aaggcagg	18
<210> 261 <211> 24 <212> DNA <213> Homo	sapiens	
<400> 261 agtggacaaa	atgaggaaaa cagg	24
<210> 262 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 262 ccaacacagt	ttgctcacat gcc	23
<210> 263 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 263 tgacatcttt	gcattatggc	20
<210> 264 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 264 agttatccca	cctgataccg	20
<210> 265 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 265 agctcttgct	tctcagtcca	20
<210> 266 <211> 24		

<212> DNA <213> Homo	sapiens	
<400> 266 caaaagttgt	ttetgtgttt gtte	24
<210> 267 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 267 gcctctcaaa	gtagttggaa cc	22
<210> 268 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 268 tgtgtatcca	tagtgcaaaa cag	23
<210> 269 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 269 ctcaaggcca	ggcatcact	19
<210> 270 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 270 ggactcttcc	atgccagtg	19
<210> 271 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 271 aatgatgatc	tcaactctg	19
<210> 272 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 272 actgaagaac	tcttgtcct	19
<210> 273 <211> 23 <212> DNA		

<213> Homo	sapiens		
<400> 273			
	agtctcataa	ttc	23
gacacocgcc	agecountan		
<210> 274			
<211> 18			
<212> DNA			
<213> Homo	canienc		
(213) 1101110	sapiens		
<400> 274			
ggtaacagtg	tettaett		18
ggcaacagcg	coccyccc		
<210> 275			
<211> 21			
<211> 21 <212> DNA			
<213> Homo	canienc		
(213) 1101110	sapiens		
<400> 275			
	aacaggaaga	a	21
ctatgtataa	aacaggaaga	9	
<210> 276			
<211> 19			
<211> 19			
<213> Homo	canienc		
(213) 1101110	saprens		
<400> 276			
atcctagttt	catataatt		19
accetageee	CCCCCCCC		
<210> 277			
<211> 23			
<211> 23 <212> DNA			
<213> Homo	saniens		
(213) 1101110	sapiens		
<400> 277			
	aacagacaaa	taa	23
gcaaacgaga	aacagacaaa	cga -	
<210> 278			
<211> 23			
<211> 23			
<213> Homo	saniens		
(213) HOMO	sapiens		
<400> 278			
	tgatatgtta	taa	23
ccaccygacy	cgacacgcca	233	
<210> 279			
<211> 27			
<211> 22 <212> DNA			
<213> Homo	ganieng		
(213) 1101110	saprens		
<400> 279			
	aaaatgaggg	ac	22
Laguagaaac			
<210> 280			
<211> 18			
<212> DNA			
<213> Homo	sapiens		
	_		

<400> 280 cctaccccaa	ggtaacag	18
<210> 281 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 281 acttcctata	aatggaggtg ag	22
<210> 282 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 282 gaggagcttc	aagaggaa	18
<210> 283 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 283 catactccta	gactcaagga atc	23
<210> 284 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 284 gaatgatgta	catgaattct ttg	23
<210> 285 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 285 gtgttgagga	gaaaagcact	20
<210> 286 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 286 ctcccagtag	tcacattcc	19
<210> 287 <211> 23 <212> DNA <213> Homo	sapiens	

<400> 287 caagttacaa	ataacttaag	ccg	23
<210> 288 <211> 23 <212> DNA <213> Homo	sapiens		
<400> 288	tctctacaaa	aac	23
<210> 289 <211> 24 <212> DNA			
<213> Homo	sapiens		
<400> 289 tttattagaa	gtgactcttg	gccc	24
<210> 290 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 290	cctcagcttg		20
<210> 291 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 291	caaagcggtc	-	20
<210> 292 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 292	ctctctttt	2	20
<210> 293 <211> 18 <212> DNA <213> Homo	saniens		
<400> 293 caccagaagg		- -	18
<210> 294 <211> 21 <212> DNA	ganiana		
<213> Homo <400> 294	sapiens		

actattacga	catgaacgcg g	21
<210> 295 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 295 ctcatgctgg	atgaccc	18
<210> 296 <211> 24 <212> DNA		
<213> Homo	sapiens	
<400> 296 ttgcctttct	tgaaacttaa ttcc	24
<210> 297 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 297 tcacagcctt	cagtcaggg	19
<210> 298 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 298 acatgctgtg	gcaccatg	18
<210> 299 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 299 cctgagctac	tgccacag	18
<210> 300 <211> 20		
<212> DNA <213> Homo	sapiens	
<400> 300 ccctgacttg	gacagtgtcc	20
<210> 301 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 301 tcagagtcac	tcctgccc	18

<210> 302 <211> 22 <212> DNA <213> Homo sapiens	
<400> 302 caaattcaag ctcatccaga cc	22
<210> 303 <211> 18 <212> DNA <213> Homo sapiens	
<400> 303 cggcatttca tccaggac	18
<210> 304 <211> 20 <212> DNA <213> Homo sapiens	
<400> 304 ggtgtaggag gtgcgacaat	20
<210> 305 <211> 20 <212> DNA <213> Homo sapiens	
<400> 305 ttccatttat tgagcacctg	20
<210> 306 <211> 20 <212> DNA <213> Homo sapiens	
<400> 306 cttaagccac tgtgttttgg	20
<210> 307 <211> 20 <212> DNA <213> Homo sapiens	
<400> 307 cctcctacac ctgcaaaagc	20
<210> 308 <211> 19 <212> DNA <213> Homo sapiens	
<400> 308 tggaagaacc ccagaggac	19

<210> 309 <211> 23 <212> DNA		
<213> Homo	sapiens	
<400> 309 aaagcacaaa	agtaacagca aca	23
<210> 310 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 310 gtgtgtgggc	cacaatattg	20
<210> 311 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 311 agagcacctt	tcctcagcac	20
<210> 312 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 312 agaatctcat	cacaggggcg	20
<210> 313 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 313 aaaaaggaca	gtgtctaaaa tttga	25
<210> 314 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 314 aattgttttt	gtttgttttt tgagt	25
<210> 315 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 315 gatttaggga	gtacaagtgc gg	22
<210> 316		

<211> 25 <212> DNA <213> Homo sapiens		
<400> 316 ggggacaaat tatactttat	tcagg	25
<210> 317 <211> 22 <212> DNA		
<213> Homo sapiens		
<pre>&lt;400&gt; 317 ccatcatcat attggtgtga</pre>	cc	22
<210> 318 <211> 18 <212> DNA		
<213> Homo sapiens		
<400> 318 tggctgccca agaagaag		18
<210> 319 <211> 24 <212> DNA		
<213> Homo sapiens		
<400> 319 ttaagatgcc attaaactca	tgac	24
<210> 320 <211> 20 <212> DNA		
<213> Homo sapiens		
<400> 320 ccaaggagat gaccaagtgg		20
<210> 321 <211> 22 <212> DNA		
<213> Homo sapiens		
<400> 321 ccatctcttt tatcagggtt	gg	22
<210> 322 <211> 24		
<212> DNA <213> Homo sapiens		
<400> 322 ctctgtgcaa gtaagcatct	taca	24
<210> 323 <211> 20		

<212> DNA <213> Homo	sapiens	
<400> 323 cgactgtgta	ttttccacag	20
<210> 324 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 324 agaagcccat	atcaatgcac	20
<210> 325 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 325 agcttaaagt	aggacaacca tgg	23
<210> 326 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 326 ggatgcttca	ctccagaaag	20
<210> 327 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 327 tgttgtttat	ttccacctgc c	21
<210> 328 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 328 agagtggctg	caggccag	18
<210> 329 <211> 25 <212> DNA <213> Homo	sapiens	
<400> 329 ttttttttt	tacacgaatt tgagg	25
<210> 330 <211> 23 <212> DNA		

<213> Homo sapiens		
<400> 330 tgaggaagta aaaacaggtc	atc	23
<210> 331 <211> 23		
<212> DNA <213> Homo sapiens		
<400> 331 atgaaatett aageagaate	cca	23
<210> 332 <211> 20		
<212> DNA <213> Homo sapiens		
<400> 332 cacagagtcc cagggtctgt		20
<210> 333 <211> 25		
<212> DNA <213> Homo sapiens		
<400> 333 aaaggccttt atttatctct	ctctg	25
<210> 334 <211> 18		
<212> DNA <213> Homo sapiens		
<400> 334 gcctcagagc tggtgggt		18
<210> 335 <211> 25		
<212> DNA <213> Homo sapiens		
<400> 335 gcttctaagt cttagagtca	getgg	25
<210> 336 <211> 19		
<212> DNA <213> Homo sapiens		
<400> 336 agcccacagt cagcctacc		19
<210> 337 <211> 20		
<212> DNA <213> Homo sapiens		

<400> 337 ttggttaaat	gatgcccaga	20
<210> 338 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 338 tggtcccact	cacatccc	18
<210> 339 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 339 acacagcatg	cagggagag	19
<210> 340 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 340 atccctggtg	cttaggtgg	19
<210> 341 <211> 21 <212> DNA <213> Homo	saniens	
<400> 341	Bapicins	
	geteeteteg g	21
<210> 342 <211> 21 <212> DNA		
<213> Homo	sapiens	
<400> 342 ggaaggccag	caagtactac c	21
<210> 343 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 343 ccggtgcttg	gaaagatg	18
<210> 344 <211> 20 <212> DNA		
<213> Homo	sapiens	

<400> 344 gaagtgtctc	tgttggggga	20
<210> 345 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 345 ttacaggcat	gagtcactac gc	22
<210> 346 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 346 accactctca	cagocottac a	21
<210> 347 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 347 ccctccctcc	acacacac	18
<210> 348 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 348 gctcactgaa	ctttcagggc	20
<210> 349 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 349 agatacgggc	aaaacactgg	20
<210> 350 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 350 gttgaatata	gagcagggcc c	21
<210> 351 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 351		

ttctgaggtc	agggctgtct	20
<210> 352 <211> 21 <212> DNA <213> Homo	ganions	
<213> Homo <400> 352	sapiens	
	atctcgtgtc a	21
<210> 353 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 353 actcagtccc	tcccaccc	18
<210> 354 <211> 20 <212> DNA		
<213> Homo <400> 354	sapiens	
tcctctcact	ccttcccaga	20
<210> 355 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 355 gtgatcacgg	ctcaacctg	19
<210> 356 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 356 tggaggactg	cttgagcc	18
<210> 357 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 357 ctgcagctgc	ctcagtttc	19
<210> 358 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 358 tcaaaagtgc	tggtgacagc	20

<210> 359 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 359 atttccagag	ccagctcaaa		20
<210> 360 <211> 25 <212> DNA <213> Homo	sapiens		
<400> 360 ctttaatgtt	gtgatgacac	aaagc	25
<210> 361 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 361 gatcatgcac	tgttgaccac		20
<210> 362 <211> 25 <212> DNA <213> Homo	sapiens		
<400> 362 tacatttgaa	acatttaaaa	cctga	25
<210> 363 <211> 24 <212> DNA <213> Homo	sapiens		
<400> 363 aactgagctg	taaccagact	ggga	24
<210> 364 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 364 tggaacagtc	tggtcctgat	<b>3</b> 3	22
<210> 365 <211> 25 <212> DNA <213> Homo	sapiens		
<400> 365 ttatcccttt	attgtttctc	ctttg	25

<210> 366 <211> 24 <212> DNA		
<213> Homo sapiens	s	
<400> 366 tggtcacctg tattta	ttgc tagg	24
<210> 367 <211> 22 <212> DNA <213> Homo sapiens	s	
<400> 367 tcttcaaagc ctctgca	agta cc	22
<210> 368 <211> 22 <212> DNA <213> Homo sapiens	s	
<400> 368 ctcatctcca acctgto	ctaa cc	22
<210> 369 <211> 24 <212> DNA <213> Homo sapiens	s	
<400> 369 gtggctgcag ctaatg	taag acac	24
<210> 370 <211> 24 <212> DNA <213> Homo sapiens	s	
<400> 370 cagcagagac aatggc	gtaa gtcc	24
<210> 371 <211> 20 <212> DNA <213> Homo sapien	ıs	
<400> 371 ctgattgaga accaga	acag	20
<210> 372 <211> 20 <212> DNA <213> Homo sapien	ıs	
<400> 372 taaagcccta taacct	ctcc	20
<210> 373		

<211> 20 <212> DNA <213> Homo	sapiens	
<400> 373 tagtaaggga	ccttcaccag	20
<210> 374 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 374 agatgtttgg	tatgacttgg	20
<210> 375 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 375 gatgattaaa	ctctcctggc	20
<210> 376 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 376 gagacagcta	agcactcatg	20
<210> 377 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 377 gaggtggtgg	gcacctgta	19
<210> 378 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 378 agaggggagg	aacacacctt	20
<210> 379 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 379 gaccagagtc	tgcccagaag	20
<210> 380 <211> 19		

<212> DNA <213> Homo	sapiens	
<400> 380 tccccagctc	tatcccaac	19
<210> 381 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 381 ggagggatgg	acaagtctga	20
<210> 382 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 382 gtccagctcg	ctgactatcc	20
<210> 383 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 383	gtcatctcca	20
<210> 384 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 384 gcaaaggctt	taccatattg	20
<210> 385 <211> 16 <212> DNA <213> Homo	sapiens	
<400> 385 gctcagcacc		16
<210> 386 <211> 16 <212> DNA <213> Homo	sapiens	
<400> 386 tccctgctcg		16
<210> 387 <211> 20 <212> DNA		

sapiens	
gagacagcac	20
sapiens	
ctattgccc	19
sapiens	
agccctgctg c	21
sapiens	
atgcagttgg	20
sapiens	
ctcctctact	20
sapiens	
gaaatgtgac	20
sapiens	
agaggagccc	20
sapiens	
	gagacagcac sapiens ctattgccc sapiens agccctgctg c sapiens atgcagttgg sapiens ctcctctact sapiens gaaatgtgac sapiens agaggagccc

<400> 394 ctccccctgg	tccagttatt	20
<210> 395 <211> 20 <212> DNA <213> Homo	saniens	
<400> 395	Suprems	
aactttcatt	tgccaaggga	20
<210> 396 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 396 agcagatctg	ctcttgcgat	20
<210> 397 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 397 acagttgtca	tcggtaggca	20
<210> 398 <211> 22 <212> DNA <213> Homo	sapiens	
<400> 398 aaaagtatga	atgggatgga gc	22
<210> 399 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 399	cgtttatttt	20
<210> 400 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 400	ccgtgtgctc c	21
<210> 401 <211> 21 <212> DNA <213> Homo	sapiens	

<400> 401 gctctagtgg	gaaacctcag g	21
<210> 402 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 402 gaattccagg	ctcttgcttg	20
<210> 403 <211> 20		
<212> DNA		
<213> Homo	sapiens	
<400> 403		0.0
ggtttggtct	caaaggcaaa	20
<210> 404		
<211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 404		
	gtggtcacca	20
<210> 405		
<211> 20		
<212> DNA		
<213> Homo	sapiens	
<400> 405		
gctgccttgg	aatttctgtt	20
<210> 406		
<211> 18		
<212> DNA <213> Homo	sapiens	
.400. 400		
<400> 406 gtgctgtggt	qqqqaaag	18
<210> 407 <211> 20		
<212> DNA		
<213> Homo	sapiens	
<400> 407		
attcaagctc	atccagaccc	20
<210> 408		
<211> 20		
<212> DNA	, cani ang	
<213> Homo	sapics	
<400> 408		

ggactggccc	tttgaaactc		20
<210> 409 <211> 22 <212> DNA			
<213> Homo	sapiens		
<400> 409 atattgaccg	tgcacaaata	cg	22
<210> 410 <211> 21 <212> DNA			
<213> Homo	sapiens		
<400> 410 agacctggga	aaagtggaga	a	21
<210> 411 <211> 20 <212> DNA			
<213> Homo	sapiens		
<400> 411 attggcagtg	gaaaatgctt		20
<210> 412 <211> 25 <212> DNA			
<213> Homo	saprens		
<400> 412 ttaatctttt	gtcaacttcc	tgatt	25
<210> 413 <211> 23 <212> DNA			
<213> Homo	sapiens		
<400> 413 tetgteetee	tttcaccgga	agc	23
<210> 414 <211> 29 <212> DNA			
<213> Homo	sapiens		
<400> 414 ggataaagaa	actccgctct	gctggtaga	29
<210> 415 <211> 25 <212> DNA <213> Homo	sapiens		
<400> 415 tcagggcctg	tgttgccgca	ctctg	25

<210> 416 <211> 25 <212> DNA		
<213> Homo <400> 416	agggtaccag tgccg	25
<210> 417 <211> 18	agggeaccag cgccg	
<212> DNA <213> Homo	sapiens	
<400> 417 aggcatgcaa	gcttctta	18
<210> 418 <211> 18 <212> DNA		
<213> Homo <400> 418	sapiens	
ccgggaggag	acatctat	18
<211> 19 <212> DNA <213> Homo	sapiens	
<400> 419 tggtaagcac	agaaaatgc	19
<210> 420 <211> 18 <212> DNA		
<213> Homo <400> 420	sapiens	
aatggatggg	ggattatt	18
<210> 421 <211> 18 <212> DNA		
<213> Homo <400> 421	sapiens	
ctggacgtta	tgtctgcc	18
<210> 422 <211> 18 <212> DNA		
<213> Homo <400> 422	sapiens	
agaggcccag	tcacagat	18

<210> 423 <211> 19 <212> DNA	
<213> Homo sapiens	
<400> 423 atcactctga actgccact	19
<210> 424 <211> 20 <212> DNA <213> Homo sapiens	
<400> 424 cccttctgtt tttctgtttt	20
<210> 425 <211> 18 <212> DNA <213> Homo sapiens	
<400> 425 caagctttga aggaagag	18
<210> 426 <211> 19 <212> DNA <213> Homo sapiens	
<400> 426 taggacgtta agtgaggac	19
<210> 427 <211> 18 <212> DNA <213> Homo sapiens	
<400> 427 getetgeagt gggtaaaa	18
<210> 428 <211> 18 <212> DNA <213> Homo sapiens	
<400> 428 actctccaag actgtgcg	18
<210> 429 <211> 18 <212> DNA <213> Homo sapiens	
<400> 429 ccctttctga ggcaagat	18
<210> 430	

<211> 18 <212> DNA <213> Homo	sapiens	
<400> 430 gaccacctgg	gagagaac	18
<210> 431 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 431 cgctatgagt	cccatctg	18
<210> 432 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 432 gatcagctgc	aatgaagg	18
<210> 433 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 433 ttgagtacac	ggggtgac	18
<210> 434 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 434 cgcaggactg	aaagatga	18
<210> 435 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 435 acctgtctcc	tctcctgg	18
<210> 436 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 436 tgcttttctt	ctgtggga	18
<210> 437 <211> 18		

<212> DNA <213> Homo sapiens	
<400> 437 atgaccagca agcattgt	18
<210> 438 <211> 18 <212> DNA <213> Homo sapiens	
<400> 438 gtactgggat tacaggcg	18
<210> 439 <211> 18 <212> DNA <213> Homo sapiens	
<400> 439 gcagaaggtc ctttggat	18
<210> 440 <211> 18 <212> DNA <213> Homo sapiens	
<400> 440 tttgcaggat tcatgctt	18
<210> 441 <211> 19 <212> DNA <213> Homo sapiens	
<400> 441 cgacattett ttetggagg	19
<210> 442 <211> 19 <212> DNA <213> Homo sapiens	
<400> 442 acctttgcat gttggtttt	19
<210> 443 <211> 18 <212> DNA	
<213> Homo sapiens	
<400> 443 gcacttttcc ttccttcc	18
<210> 444 <211> 18 <212> DNA	

<213> Homo	sapiens	
<400> 444 tgctttgctt	tcttctgg	18
<210> 445 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 445 acagctccag	agagaagga	19
<210> 446 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 446 gcagtcactt	gaaaccaga	19
<210> 447 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 447 aggcatcaag	ctttcctt	18
<210> 448 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 448 ggtttagaga	accgagcc	18
<210> 449 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 449 gtggtgctgc	aagttacc	18
<210> 450 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 450 ggaatccctt	tctttcca	18
<210> 451 <211> 18 <212> DNA		
<213> Homo	sapiens	

<400> 451 gaccatttgt	tacgcagc	18
<210> 452 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 452 gatgggtgtg	aatgaacaa	19
<210> 453 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 453 ctcaagcttc	tgttcatgc	19
<210> 454 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 454 gctgtgagtg	tcttggct	18
<210> 455 <211> 18 <212> DNA <213> Homo	ganiang	
<400> 455	sapiens	
tacagaaaac	cgcagctc	18
<210> 456 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 456 gccaccaaag	gaaagatt	18
<210> 457 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 457 aaaaggaggg	aatcatgg	18
<210> 458 <211> 18 <212> DNA		
<213> Homo	sapiens	

<400> 458 tcacttagca	ggaggcag	18
<210> 459 <211> 18 <212> DNA <213> Homo	saniens	
<400> 459		1.0
ctgagcatcc <210> 460	gatgagac	18
<211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 460 gtgcaaaatg	agcagctt	18
<210> 461 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 461 tctaacccct	tactgggc	18
<210> 462 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 462 tcctcaaact	gggaatga	18
<210> 463		
<211> 18 <212> DNA <213> Homo	saniers	
<400> 463	sapiens	
tttacacagg	accaggga	18
<210> 464 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 464 atctccccca	ctcagaag	18
<210> 465 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 465		

gtccacgggc	tttattct	18
<210> 466 <211> 22 <212> DNA		
<213> Homo	sapiens	
<400> 466 tgagcataaa	tttcattagc tg	22
<210> 467 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 467 ggaagagcaa	aataaatcca	20
<210> 468 <211> 19 <212> DNA		
<213> Homo	sapiens	
<400> 468 ggtgcacaga	attgttcat	19
<210> 469 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 469 agcacgctta	tttcatgg	18
<210> 470 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 470 gtaacaccag	cagggaca	18
<210> 471 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 471		
tcctgctgca	ttatggat	18
<210> 472 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 472 gggggtgaga	agtaggaa	18

<210> 473 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 473 atggggatta a	aatacggg	18
<210> 474 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 474 agctagcatt g	gggctctt	18
<210> 475 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 475 ctgaggagaa g	gaggetgg	18
<210> 476 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 476 cgccttacaa g	ggcaagta	18
<210> 477 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 477 aggatgcttg c	rtagggtt	18
<210> 478 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 478 cacaagtgtc t	ggaaggc	18
<210> 479 <211> 18 <212> DNA <213> Homo s	sapiens	
<400> 479 ggtctcagga g	gcccttta	18

<210> 480 <211> 21 <212> DNA		
<213> Homo	sapiens	
<400> 480 acatgccact	cttctcacta a	21
<210> 481 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 481 acttaaccaa	ggatgggg	18
<210> 482 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 482 caacccacga	gcataaga	18
<210> 483 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 483 taggetetge	actcttgg	18
<210> 484 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 484 acccacggag	tctctctc	18
<210> 485 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 485 taaaggcggt	gaagtgag	18
<210> 486 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 486 ctaccgctct	cctaggct	18
<210> 487		

<211> 18 <212> DNA <213> Homo	sapiens	
<400> 487 tggggccaga	taattett	18
<210> 488 <211> 18 <212> DNA		
<213> Homo <400> 488	sapiens	
ctggtgtttg	gtggtgtt	18
<210> 489 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 489 aaggaagagg	tcaccagg	18
<210> 490 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 490 cacaaattcc	atttccca	18
<210> 491 <211> 21 <212> DNA		
<213> Homo	sapiens	
<400> 491 tcaataggtg	atccaacatt t	21
<210> 492 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 492 aaagtcccac	aaagggtc	18
<210> 493 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 493 gggtagggg	atctttt	18
<210> 494 <211> 18		

<212> DNA <213> Homo	sapiens	
<400> 494 tgtggaacat	tcattggc	18
<210> 495 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 495 gtcctgggaa	agatggaa	18
<210> 496 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 496 tcaaagcgtc	tcccataa	18
<210> 497 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 497 tctttcgctg	tacttggc	18
<210> 498 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 498 tgggaggtca	gagtgatg	18
<210> 499 <211> 19 <212> DNA <213> Homo	saniens	
<400> 499 ggacagtgta		19
<210> 500 <211> 18 <212> DNA		
<213> Homo <400> 500 aggcagctgt		18
<210> 501 <211> 18 <212> DNA		

<213> Homo	sapiens	
<400> 501 cttcttgagt	cccgtgtg	18
<210> 502 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 502 caaccgagaa		19
<210> 503 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 503 gctgggagag	aatcacaa	18
<210> 504 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 504 gctttgcaga		18
<210> 505 <211> 18 <212> DNA	iona	
<213> Homo <400> 505 acgctgtcag		18
<210> 506 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 506 ggaggatgct	caggtgat	18
<210> 507 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 507 tagggggatc		18
<210> 508 <211> 18 <212> DNA <213> Homo	saniens	
-ZIJJ HUMU	pupaciib	

<400> 508 gagcaatttg	aaaagcca	18
<210> 509 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 509 atggtccagc	tcctctgt	18
<210> 510 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 510 atagagcacc	ccatctcc	18
<210> 511 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 511 aacattgctg	ttagccca	18
<210> 512 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 512 gcaatcgaaa	cagcattc	18
<210> 513 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 513 atgagttggc	agctgaag	18
<210> 514 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 514 aatgaaggtc	ttgcctcc	18
<210> 515 <211> 20 <212> DNA		
<213> Homo	sapiens	

<400> 515 gaggagaaga	tccacaagcg	20
<210> 516 <211> 20 <212> DNA <213> Homo	ganieng	
<400> 516	atactgaacc	20
<210> 517 <211> 18		
<212> DNA <213> Homo	sapiens	
<400> 517 ctgagctttt	ggcactgt	18
<210> 518 <211> 18 <212> DNA		
<213> Homo <400> 518		18
<pre>ctgctaggtg &lt;210&gt; 519 &lt;211&gt; 20</pre>	acagcagg	
<212> DNA <213> Homo	sapiens	
<400> 519 tgtatgagtc	tggagggtgt	20
<210> 520 <211> 18 <212> DNA		
<213> Homo <400> 520		
acacctggct <210> 521	gaggaaat	18
<211> 18 <212> DNA <213> Homo	sapiens	
<400> 521 gcaggggacg	tgataata	18
<210> 522 <211> 18 <212> DNA		
<212> DNA <213> Homo <400> 522	sapiens	

ttttgcttcc	taccatgc	18
<210> 523 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 523 aaaattgtga	gcacctcc	18
<210> 524 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 524 tttatattta	aagtggcttt gtt	23
<210> 525 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 525 gtgcaaagcc	cacagtat	18
<210> 526 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 526 aggaaaatgc	aagagcag	18
<210> 527 <211> 20 <212> DNA <213> Homo	ganiens	
<400> 527	sapiens	
ccactgaatt	gcatactttg	20
<210> 528 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 528 tctgggtcca	gtctgcta	18
<210> 529 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 529 agattttggg	gagtcagg	18

<210> 530 <211> 17 <212> DNA <213> Homo sapiens	
<400> 530 gcgctcaagc aattctc	17
<210> 531 <211> 18 <212> DNA <213> Homo sapiens	
<400> 531 caagccccaa agtagtca	18
<210> 532 <211> 18 <212> DNA <213> Homo sapiens	
<400> 532 gaatcatcca atccacga	18
<210> 533 <211> 18 <212> DNA <213> Homo sapiens	
<400> 533 agcctccagg tgactacc	18
<210> 534 <211> 18 <212> DNA <213> Homo sapiens	
<400> 534 gaaggacatg gtcagcag	18
<210> 535 <211> 18 <212> DNA <213> Homo sapiens	
<400> 535 atgettteag catttteg	18
<210> 536 <211> 18 <212> DNA <213> Homo sapiens	
<400> 536 tgatccgtgg tagggtta	18

<210> 537 <211> 18 <212> DNA	ganieng	
<213> Homo <400> 537	sapiens	
gtcggattgg	tttcacaa	18
<210> 538 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 538 ttttatggga	atttcagcc	19
<210> 539 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 539 tttggaaaag	aacagaaatg t	21
<210> 540 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 540 ggctagtctt	tcctgaacc	19
<210> 541 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 541 ccttaatgcc	cctgattc	18
<210> 542 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 542 gcgtttacaa	gctgagga	18
<210> 543 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 543 tcaagcttgc	tttctcaa	18
<210> 544		

<211> 18 <212> DNA <213> Homo	sapiens	
<400> 544 gtagcccagc	aagtgtct	18
<210> 545 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 545 cctggctgga	gataggat	18
<210> 546 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 546 cttcccctct	gcctatgt	18
<210> 547 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 547 ggcacgtact	tcctacca	18
<210> 548 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 548 ggtgcttctt	acaggcaa	18
<210> 549 <211> 16 <212> DNA		
<213> Homo	sapiens	
<400> 549 acccaggctg	gtgtgt	16
<210> 550 <211> 23 <212> DNA		
<213> Homo	sapiens	
<400> 550 actgagttaa	ttatcactcc cct	23
<210> 551 <211> 18		

<212> DNA <213> Homo	sapiens	
<400> 551 gatgcatttt	gcttcacc	18
<210> 552 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 552 tctgctttta	gagetgttag c	21
<210> 553 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 553 tcaagcttca	aagagcaga	19
<210> 554 <211> 18 <212> DNA <213> Homo	sapiens	
<400> 554 ggagtacatc	ccaggacc	18
<210> 555 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 555 tggtgctttt	aaatccaga	19
<210> 556 <211> 21 <212> DNA <213> Homo	sapiens	
<400> 556	tacttgcatt g	21
<210> 557 <211> 18 <212> DNA <213> Homo	o sapiens	
<400> 557 tcttctccca	gggaatct	18
<210> 558 <211> 18 <212> DNA		

<213> Homo	sapiens	
<400> 558 tttatgtccc	ctgagcac	18
<210> 559 <211> 19 <212> DNA <213> Homo	sapiens	
<400> 559 tccctggcta	tcttgaatc	19
<210> 560 <211> 16 <212> DNA <213> Homo	sapiens	
<400> 560 cttgactggg	tccacg	16
<210> 561 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 561 cgagacgcca	gtagatacca	20
<210> 562 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 562 catcctccat	gcctttcagt	20
<210> 563 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 563 agttccagag	aacgagacgc	20
<210> 564 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 564 cttgtcatcc	tccatgcctt	20
<210> 565 <211> 20 <212> DNA <213> Homo	sapiens	

<400> 565 gagcgtgaga	ggttgaggag	20
<210> 566 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 566	cagacgcacc	20
<210> 567 <211> 24 <212> DNA		20
<213> Homo	sapiens	
<400> 567 ctgaaccact	acctgtatga cctg	24
<210> 568 <211> 25 <212> DNA		
<213> Homo	sapiens	
<400> 568 ctaactactt	actectacag ggeec	25
<210> 569 <211> 23 <212> DNA <213> Homo	sapiens	
<400> 569	aatactttaa ctg	23
<210> 570 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 570 ccactccagt	gcacccaatc	20
<210> 571 <211> 20 <212> DNA <213> Homo	saniens	
<400> 571	ccactctgac	20
<210> 572 <211> 21 <212> DNA		
<213> Homo	sapiens	

<400> 572 ggtttacctt	tgaatcccag	c	21
<210> 573 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 573 tgaggatgaa	tgagcacata	gg	22
<210> 574 <211> 21 <212> DNA <213> Homo	sapiens		
<400> 574 tttgtggtcc	attgagtagg	с	21
<210> 575 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 575 aggggaagga	atgtgcttgg		20
<210> 576 <211> 20 <212> DNA <213> Homo	sapiens		
<400> 576 ttcggctgag	cgggcagtgt		20
<210> 577 <211> 26 <212> DNA <213> Homo	sapiens		
<400> 577 attgaaggtc	ctccaaaaga	atgctg	26
<210> 578 <211> 30 <212> DNA <213> Homo	sapiens		
<400> 578 agaacgtcaa	catatctttt	tgggggacac	30
<210> 579 <211> 22 <212> DNA <213> Homo	sapiens		
<400> 579			

ttgtatttga	ggactttgct cg	22
<210> 580 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 580 cggtaccatc	ctcctctcc	20
<210> 581 <211> 20 <212> DNA		
<213> Homo <400> 581	sapiens	
tttttgcctc	atctatgccc	20
<210> 582 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 582		
gggtgacaga	gcaagactcc	20
<210> 583 <211> 18 <212> DNA <213> Homo	saniens	
<400> 583		
ttgctcaagt	tctcctgg	18
<210> 584 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 584 accttgtttt	gagggag	18
<210> 585 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 585 cttggctatt	tggacagc	18
<210> 586 <211> 18 <212> DNA		
<213> Homo	sapiens	
<400> 586 gggcatttac	tcacttgc	18

<210> 587 <211> 19 <212> DNA <213> Homo sapiens	
<400> 587 cttgtgtcag ttgtcaggg	19
<210> 588 <211> 19 <212> DNA <213> Homo sapiens	
<400> 588 tggaattgtt gtgtcttgg	19
<210> 589 <211> 18 <212> DNA <213> Homo sapiens	
<400> 589 ccagttccac tggatgtt	18
<210> 590 <211> 18 <212> DNA <213> Homo sapiens	
<400> 590 atgggctgtg tttctcaa	18
<210> 591 <211> 18 <212> DNA <213> Homo sapiens	
<400> 591 ctgcctatcc ctggactt	18
<210> 592 <211> 18 <212> DNA <213> Homo sapiens	
<400> 592 agtttgtccc tagtgccc	18
<210> 593 <211> 19 <212> DNA <213> Homo sapiens	
<400> 593 caacacgtct gacatccat	19

<210> 594 <211> 16 <212> DNA		
<213> Homo	sapiens	
<400> 594 ggatagtgca	caccca	16
<210> 595 <211> 22 <212> DNA		
<213> Homo <400> 595	sapiens	
	tattgttccc at	22
<210> 596 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 596 agttccagcc	cccttaccag	20
<210> 597 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 597	atccctgtgt	20
<210> 598 <211> 20		
<212> DNA <213> Homo	sapiens	
<400> 598 tttcacatgg	gaagaacacg	20
<210> 599 <211> 20 <212> DNA <213> Homo	sanjens	
<400> 599	Supreme	
	tagggacggg	20
<210> 600 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 600 tgccaggatg	gagataacaa	20
<210> 601		

<211> 20 <212> DNA <213> Homo	sapiens	
<400> 601 cctgtggcac	acatatcacc	20
<210> 602 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 602 acaaccaaga	atggagccac	20
<210> 603 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 603 tgctgtgtaa	caagtcccca	20
<210> 604 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 604	acctaccaag	20
<210> 605 <211> 20 <212> DNA <213> Homo	saniens	
<400> 605	actcactaag	20
<210> 606 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 606 gctgtgagtt	ccctttacgc	20
<210> 607 <211> 20 <212> DNA <213> Homo	o sapiens	
<400> 607 acagtgggga	caaagacagg	20
<210> 608 <211> 20		

<212> DNA <213> Homo sapiens	
<400> 608 tacagggcac ctcccagtag	20
<210> 609 <211> 21 <212> DNA <213> Homo sapiens	
<400> 609 tcttctgtta aggtttcccc c	21
<210> 610 <211> 20 <212> DNA <213> Homo sapiens	
<400> 610 tgtctcaaac ctccctctgc	20
<210> 611 <211> 20 <212> DNA <213> Homo sapiens	
<400> 611 aacatatttc ctccccagcc	20
<210> 612 <211> 19 <212> DNA <213> Homo sapiens	
<400> 612 cagtcccagc caatgagaa	19
<210> 613 <211> 20 <212> DNA <213> Homo sapiens	
<400> 613 ctcctctgca tgggagaatc	20
<210> 614 <211> 20 <212> DNA <213> Homo sapiens	
<400> 614 agacctggga ccagtctgtg	20
<210> 615 <211> 20 <212> DNA	

<213> Homo	sapiens	
<400> 615 gggagacgac	gtcacaagat	20
<210> 616 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 616 tgatgttggg	aagatggtga	20
<210> 617 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 617 caggcatctt	ctatgtgcca	20
<210> 618 <211> 20 <212> DNA <213> Homo	saniens	
<400> 618	agttctttca	20
<210> 619 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 619 acttcgtggc	actgagtgtg	20
<210> 620 <211> 20 <212> DNA <213> Homo	sapiens	
<400> 620 cctttcttac	ggatgaggca	20
<210> 621 <211> 20 <212> DNA		
<213> Homo	sapiens	
<400> 621 ggctgctgag	ctcttctgat	20
<210> 622 <211> 20 <212> DNA		
<213> Homo	sapiens	

<400> 622 tgggtctctc tgcctgactt	20
<210> 623 <211> 20 <212> DNA <213> Homo sapiens	
<400> 623 tcacctactt ccagcttccg	20
<210> 624 <211> 20 <212> DNA <213> Homo sapiens	
<400> 624 agacctggga ccagtctgtg	20
<210> 625 <211> 20 <212> DNA <213> Homo sapiens	
<400> 625 ctcctctgca tgggagaatc	20
<210> 626 <211> 20 <212> DNA <213> Homo sapiens	
<400> 626 aattcaggag acctgggacc	20
<210> 627 <211> 15 <212> DNA <213> Artificial Sequence	
<220> <223> Artificial Sequence is a BstXI-linker adapter.	
<400> 627 gtcttcacca cgggg	15
<210> 628 <211> 11 <212> DNA <213> Artificial Sequence	
<220> <223> Artificial Sequence is a BstXI-linker adapter.	
<400> 628 gtggtgaaga c	11

```
<210> 629
<211> 18
<212> DNA
<213> Artificial Sequence
<223> Artificial Sequence is a primer.
<400> 629
                                                                    18
ccaagttctg agaagtcc
<210> 630
<211> 17
<212> DNA
<213> Artificial Sequence
<223> Artificial Sequence is a primer.
<400> 630
                                                                    17
aatacctgaa accatac
<210> 631
<211> 17
<212> DNA
<213> Artificial Sequence
<223> Artificial Sequence is an allele specific oligonucleotide.
<400> 631
                                                                    17
agactggggt gagacgc
<210> 632
<211> 19
<212> DNA
<213> Artificial Sequence
<223> Artificial Sequence is an allele specific oligonucleotide.
<400> 632
                                                                    19
cagactgggt tgagacgcc
<210> 633
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial Sequence is a primer.
<400> 633
                                                                    24
cccgtgtgct ccgccgccca gttc
<210> 634
```

```
<211> 25
<212> DNA
<213> Artificial Sequence
<223> Artificial Sequence is a primer.
<400> 634
                                                                   25
ggctcacgga gctcatcatg gactt
<210> 635
<211> 502
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial Sequence is a primer.
<400> 635
cccgtgtgct ccgccgccca gttcccctgc gcgcggggtc agtgtgtgga cctgcgcctg 60
cgctgcgacg gcgaggcaga ctgtcaggac cgctcagacg aggtggactg tgacgccatc 120
tgcctgcca accagttccg gtgtgcgagc ggccagtgtg tcctcatcaa acagcagtgc 180
gacteettee eegactgtat egacggetee gacgagetea tgtgtgaaat caccaageeg 240
ccctcagacg acagcccggc ccacagcagt gccatcgggc ccgtcattgg catcatcctc 300
tototottog toatgggtgg tgtotatttt gtgtgccago gcgtggtgtg ccagogctat 360
gegggggcca acgggccctt cccgcacgag tatgtcagcg ggaccccgca cgtgccctc 420
aatttcatag ccccgggcgg ttcccagcat ggccccttca caggcatcgc atgcggaaag 480
                                                                   502
tccatgatga gctccgtgag cc
<210> 636
<211> 21
<212> DNA
<213> Artificial Sequence
<223> Artificial Sequence is a primer.
<400> 636
                                                                   21
agcgaggcca ccatccacag g
<210> 637
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial Sequence is a primer.
<400> 637
tcgctggtcg gcataatcaa t
                                                                   21
<210> 638
<211> 501
<212> DNA
<213> Artificial Sequence
<220>
```

```
<400> 638
agcagageca ccatecacag gatetecetg gagactaaca acaacgatgt ggetatecca 60
ctcacgggtg tcaaagaggc ctctgcactg gactttgatg tgtccaacaa tcacatctac 120
tggactgatg ttagcctcaa gacgatcagc cgagccttca tgaatgggag ctcagtggag 180
cacgtgattg agtttggcct cgactaccct gaaggaatgg ctgtggactg gatgggcaag 240
aacctctatt gggcggacac agggaccaac aggattgagg tggcccggct ggatgggcag 300
ttccggcagg tgcttgtgtg gagagacctt gacaacccca ggtctctggc tctggatcct 360
actaaaggct acatctactg gactgagtgg ggtggcaagc caaggattgt gcgggccttc 420
atggatggga ccaattgtat gacactggta gacaaggtgg gccgggccaa cgacctcacc 480
attgattatg ccgaccagcg a
<210> 639
<211> 26
<212> RNA
<213> Artificial Sequence
<223> Artificial Sequence is a Zmaxl oligonucleotide.
<400> 639
                                                                   26
raguacagcu ucuugccaac ccaguc
<210> 640
<211> 26
<212> RNA
<213> Artificial Sequence
<220>
<223> Artificial Sequence is a Zmax1 oligonucleotide.
<400> 640
                                                                   26
ruccuccagg ucqaugguca gcccau
<210> 641
<211> 26
<212> RNA
<213> Artificial Sequence
<220>
<223> Artificial Sequence is a Zmax1 oligonucleotide.
<400> 641
                                                                   26
rgucugaguc cgaguucaaa uccagg
```